REMEDIAL SITE ASSESSMENT DECISION – EPA Region 05

Site Name: FORMER CUSTOM CLEANERS STORE

Alias(es):

City: COLUMBUS **County or Parish:** FRANKLIN **State:** OH

Refer to Report Dated: 12/22/2011 **EPA ID:** OHN000510592

Report Developed By: STATE **State ID:**

Report Type: PRELIMINARY ASSESSMENT #001 **Decision Date:** 12/22/2011

- ☐ **1. Further Remedial Site Assessment Under CERCLA (Superfund) is not required because:**
- ☑ **2. Further Assessment Needed Under CERCLA.**
  Low priority for further assessment
- ☐ **3. Remedial study/cleanup needed.**

Decision/Rationale:

Decision/Rationale (Continued):

Site Decision Made By: PATRICK HAMBLIN, NPL COORDINATOR

Signature:_____ **Decision Date:** 12/22/2011

Ohio Environmental Protection Agency
John R. Kasich, Governor
Mary Taylor, Lt. Governor
Scott J. Nally, Director

September 15, 2011

Mr. Patrick Hamblin
NPL Coordinator
U.S. EPA Region 5
Office of Superfund SE 6J
77 West Jackson Blvd.
Chicago, IL 60604

RE: Former Custom Cleaners, Preliminary Assessment
CERCLIS ID OHN000510440

Dear Mr. Hamblin:

Ohio EPA completed a Preliminary Assessment (PA) for the Former Custom Cleaners Site pursuant to a cooperative agreement with U.S. EPA, Region 5. Ohio EPA performed this work to determine if the Site is of National Priority List (NPL) caliber.

Custom Cleaners, a former dry cleaning business, operated a dry cleaning facility at 1260 Morse Road in the Woodward Park Shopping Center in Columbus, Ohio. The Site is currently a vacant retail space in an otherwise occupied shopping center. In 2007 and 2008, tetrachloroethene (PCE) and trichloroethene (TCE) were detected in the soil under the building slab floor and in the soils outside the building. The contaminated soil outside the building was removed, and a sub-slab vapor depressurization system installed to mitigate vapor intrusion to indoor air from contaminated soils remaining under the slab.

There has been little follow-up sampling after installation of the sub-slab vapor depressurization system to determine if the system is functioning adequately. Because of the lack of data to confirm mitigation of the exposure pathway, Ohio EPA recommends further sampling at the Custom Cleaners site be conducted through a Site Investigation (SI).

Please feel free to contact me at (614) 836-8756 or by e-mail at ed.gortner@epa.state.oh.us if you have any questions regarding Ohio's recommendation.

Sincerely,

R. Edwin Gortner,
Site Assessment Supervisor
Ohio EPA | Division of Environmental Response and Revitalization
Assessment, Cleanup, & Reuse (ACRE) Section - Site Investigation Field Unit

Cc: Cindy Hafner, DERR
Tiffani Kavalec, DERR
Deborah Strayton, DERR, CDO
Ray Moreno, DERR, CDO

Preliminary Assessment Report

Former Custom Cleaners
Franklin County, Ohio

U.S. EPA ID: OHN000510440
8/18/2011

Prepared by: _____ Date: 9/15/11
Ray Moreno, Site Coordinator
Division of Environmental Response & Revitalization
Central District Office

Reviewed by: _____ Date: 9/15/11
Debbie Strayton, Environmental Manager
Division of Environmental Response & Revitalization
Central District Office

Reviewed by: _____ Digitally signed by R. Edwin Gortner DN: cn=R. Edwin Gortner, o=Ohio EPA, ou=DERR SIFU, email=ed.gortner@epa.state.oh.us, c=US Date: 2011.10.18 13:48:19 -04'00' Date: 9/15/11
Ed Gortner, Environmental Supervisor
Site Investigation Field Unit
Division of Environmental Response & Revitalization

Approved by: _____ Date: 12/22/11
Patrick Hamblin
NPL Coordinator
U.S. EPA Region 5

January 2011

Ohio Environmental Protection Agency

Former Custom Cleaners
1260 Morse Road
Columbus, Ohio

Preliminary Assessment

John Kasich, Governor
Lee Fisher, Lt. Governor
Scott J. Nally, Director

PRELIMINARY ASSESSMENT REPORT

for

Former Custom Cleaners Store
1260 Morse Road
Columbus, Franklin County, Ohio
U.S. EPA ID: OHN000510440

OHIO ENVIRONMENTAL PROTECTION AGENCY
Division of Emergency & Remedial Response
Central District Office
50 West Town Street, Suite 700
P.O. Box 1049
Columbus, Ohio 43216-1049

March 2011

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1.0 EXECUTIVE SUMMARY

The Ohio Environmental Protection Agency (Ohio EPA) Division of Emergency and Remedial Response (DERR) entered into a cooperative agreement with the United States Environmental Protection Agency (U.S. EPA) Region V to conduct a preliminary assessment (PA) of the former Custom Cleaners store located at 1260 Morse Road, Columbus, Ohio. The purpose of this report is to evaluate the site history and summarize available data to determine if further action including sampling is necessary.

Custom Cleaners, a former dry cleaning business, operated a dry cleaning facility at 1260 Morse Road in the Woodward Park Shopping Center in Columbus, Ohio. The site is currently a vacant retail space in an otherwise occupied shopping center.

Ohio EPA received anonymous complaints about the site in August 2007 and February 2008 from an employee in an adjacent business who was concerned about the potential for exposure to possible contamination from the site. Ohio EPA contacted the property owner and the owner's property manager in February 2008 to obtain information on the site. The property manager's environmental consultant then contacted and informed Ohio EPA that environmental investigation activities had been conducted and a release of dry cleaning chemicals had been verified at the site. Ohio EPA conducted a site visit in December 2008 accompanied by the property manager's environmental consultant.

Remediation activities were conducted at the site by the owner in 2009. Approximately 133 tons of contaminated soil was removed from an area behind the former store in May 2009. A sub-slab vapor depressurization system was also installed inside beneath the floor of the former store and the concrete floor surface was repaired and sealed to prevent potential exposure to contamination remaining beneath the floor slab. There is no institutional control mechanism such as an environmental covenant or an operation and maintenance plan, however, to ensure that these measures remain in place.

A Pre-CERCLIS Screening (PCS) assessment was conducted at the site by Ohio EPA on behalf of U.S. EPA. A draft PCS assessment report was submitted to U.S. EPA on June 29, 2010 and revised on March 14, 2011.

2.0 SITE BACKGROUND

2.1 Site Description

The former Custom Cleaners site is located at 1260 Morse Road in the Woodward Park Shopping Center in Columbus, Ohio (Figure 1). The retail space that was occupied by Custom Cleaners is currently vacant. Adjoining businesses in the shopping center include a Save-A-Lot grocery store to the west and Buckeye Finance to the east (Figure 2). Nearby land use along both sides of Morse Road is commercial. Surrounding land use to the north, northeast and northwest is residential.

2.2 Site History

The site operated as a dry cleaning business from the mid-1960s until November 2006. The dry cleaning business had several owners during that time who apparently leased the site for dry cleaning operations from the shopping center owners. The most recent occupant was Custom Cleaners.

A RCRA Site Detail notification was received on September 2, 1986 listing the site as a small quantity generator with an EPA waste code of F002. The site name was listed as Custom Cleaners, Inc. and the owner was listed as Bennie E. Golden.

On August 16, 2007, Ohio EPA received an anonymous complaint from an employee in an adjacent business who was concerned about potential contamination at the site. The complainant made a follow-up call on February 12, 2008.

Ohio EPA contacted Complete General Construction Company, one of the property owners, on February 25, 2008, and was referred to Schneider Link and Company, the property manager. A representative from the property manager's environmental consultant, Civil and Environmental Consultants, Inc. (CEC) contacted Ohio EPA on February 28, 2008, and provided Ohio EPA with verbal information regarding the site. The CEC representative stated that Phase I and limited Phase II environmental site assessment activities had been conducted at the site on behalf of the owner, which confirmed that a release of dry cleaning chemicals had occurred at the site. Ohio EPA requested copies of the site assessment reports but was informed at that time that the owner did not want to provide copies. Ohio EPA also made a written request to the property manager for copies of the site assessment reports but the property manager did not respond.

Ohio EPA requested and obtained access to inspect the site from the owner and conducted a site visit on December 9, 2008 accompanied by a CEC representative. According to the CEC representative, six shallow borings had been completed inside the building by a previous consultant. Tetrachloroethene (PCE) and trichloroethene (TCE) were detected in soil beneath the building slab. CEC completed four additional soil borings beneath the building slab and 14 borings in back (north) of the building. PCE and TCE were detected in the CEC borings with PCE detected at 300 mg/kg in one soil boring outside the building. CEC also installed five monitoring wells at the site; however, no volatile organic compounds (VOCs) were detected in ground water samples from the wells.

Sub-slab vapor samples were also collected by CEC beneath the slab of the adjoining businesses in the shopping center. PCE was detected in the sub slab at concentrations ranging from 9.9 parts per billion volume / volume (ppb v/v) to 510 ppb v/v. CEC also collected an indoor air sample from the former Custom Cleaners store that contained numerous detections of VOCs including PCE at 27 micrograms per cubic meter. During the December 2008 site visit, the CEC representative stated that remedial activities were being planned for the site in 2009.

Ohio EPA contacted CEC in June 2010 to inquire about the status of remediation activities at the site. On June 16, 2010, the property manager's counsel provided Ohio EPA with a copy of a remediation completion report prepared by CEC dated October 22, 2009. The report stated that approximately 133 tons of contaminated soil were removed from the site in the area immediately in back (north) of the building in May 2009 and was disposed of as a hazardous waste. Additionally, approximately 3000 gallons of accumulated water from a leaking water line was pumped from the excavation and was also disposed of as a hazardous waste. A sub-slab vapor depressurization system consisting of a six-inch diameter pipe was installed in the granular subgrade beneath the floor slab of the former store along the west interior wall to the roof top. A motorized fan draws vapor from beneath the slab and vents it to the atmosphere on the roof top of the building. The floor cracks and penetrations in the store's concrete floor were sealed and the entire floor was coated with an epoxy resin sealant. The report states that an indoor air sample was collected after installation of the sub-slab vapor depressurization system and that there were no detections of PCE or TCE above laboratory reporting limits.

A RCRA Site Detail notification received on February 26, 2009 listed the site as a large quantity generator (OHD065988461) with EPA waste codes of F001 and F002. The site name was listed as Woodward Park Shopping Center and the owner and operator were listed as Woodpark Park Shopping Center since June 25, 1964. It appears that the large quantity generator identification number was obtained for purposes of removal and disposal of contaminated soil associated with the site remediation activities.

On October 15, 2010, Ohio EPA sent a notice of violation to Jeffrey Link of the Woodward Park Shopping Center for failure to provide a Hazardous Waste Annual Report for 2009 for the disposal of 141.50 tons of hazardous waste. The report requested an annual report within 30 days of receipt of the letter. The annual report has not been received at this time.

2.3 Previous Site Work

According to the remediation completion report, four Phase I and Phase II site assessment reports were prepared between December 11, 2006 and May 28, 2008. Ohio EPA has not been provided copies of the reports, however.

Remedial activities were conducted at the site as described in Section 2.2 of this report.

2.4 Site Geology, Soils, Topography and Hydrogeology

2.4.1 Geology

The surficial geology in the vicinity of the site consists of Wisconsinan Age ground moraine. The surficial deposits overlie the Devonian Age Ohio Shale, which in turn overlies the Olentangy Shale, Delaware Limestone and Columbus Limestone. Depth to bedrock in the vicinity of the site is approximately 200 feet.

2.4.2 Soils

The *Soil Survey of Franklin County, Ohio* (1980) maps soils in the vicinity of the site as Bennington – Urban land complex, 0 to 2 percent slopes. The survey describes these soils as deep, nearly level and poorly drained Bennington silt loam soil and areas of urban land. Much of the soil in this mapped unit has been altered by development activities including cutting and filling and alteration of drainage.

2.4.3 Topography

North – Central Franklin County is in the Till Plains Section of the Central Lowlands Physiographic Province. The area is characterized by low to moderate relief with rolling hills and dissected by streams. The topography in this area is primarily the result of Wisconsinan-age glaciation. The site is essentially flat and predominantly covered by the shopping center and asphalt pavement with some grass areas. The ground surface elevation at the site is approximately 900 feet above mean sea level.

2.4.4 Hydrogeology

Monitoring wells at the site indicate the depth to ground water is less than 20 feet below ground surface. Ground water flow direction at the site is to the west. The shallow ground water in the vicinity of the site is not utilized as a drinking water supply source.

A search of the Ohio Department of Natural Resources, Division of Water on-line located well database indicated that there were four water supply wells within a one-half mile radius of the site. The wells were completed in minor gravel or sand and gravel lenses within the till deposits with completion depths ranging from 125 feet to 190 feet. The wells were completed between 1950 and 1954. It is not known if they are still in service.

Drinking water in the vicinity of the site is supplied by the city of Columbus municipal water system.

2.5 Land Use and Demographic Information

The city of Columbus, county seat of Franklin County and capital of Ohio, is located in central Ohio. The city of Columbus occupies approximately 210 square miles primarily in Franklin County with small portions of the city located in adjoining areas of Fairfield and Delaware Counties. The 2006 estimated population of Columbus was approximately 733,000. The 2009 estimated population of Franklin County was approximately 1,150,000.

The site is located on the north side of the city of Columbus at 1260 Morse Road in the Woodward Park Shopping Center. Morse Road is a major east – west thoroughfare in north Columbus and is a lined with retail and other commercial establishments. The shopping center is located on the north side of Morse Road. The area immediately to

the south of the shopping center is primarily retail. The area to the north of the Woodward Park Shopping Center is residential and is comprised of apartments and single-family homes.

The 4-Mile Radius Maps and Data Package included as Appendix C provides additional information on the population surrounding the site.

3.0 MIGRATION PATHWAYS

3.1 Soil Exposure Pathway

Exposure to contaminated soil is a pathway of concern at the site. Contaminated soil remains beneath the building with VOC concentrations that could leach to ground water if the existing floor slab is removed. The concentrations of VOCs remaining in the soil are also capable of vapor intrusion to indoor air. See Section 3.4, Air Pathway.

3.2 Ground Water Pathway

Exposure to or ingestion of ground water is not currently a pathway of concern at the site but could be if the building slab is removed allowing precipitation to leach known soil contamination to ground water.

3.3 Surface Water Exposure Pathway

There are no surface water courses on the site.

3.4 Air Pathway

The air pathway is a pathway of concern in the building space. Concentrations of VOCs in the air inside the former store have been reported as being below risk-based screening levels following installation and operation of the sub-slab vapor depressurization system. Concentrations of VOCs in soil, however, may present a risk to indoor air if the vapor mitigation system is not operated. VOC concentrations in indoor air are not known for the adjacent businesses.

4.0 SUMMARY

Contaminated soil that was readily accessible was removed from behind the building at the site; however, contaminated soil remains beneath the building floor slab. The owner repaired floor cracks and penetrations, sealed the concrete floor with an epoxy resin sealant and installed a sub-slab vapor depressurization system to extract soil vapor from beneath the building slab. The site currently utilizes engineering controls to render potential exposure pathways incomplete; the existing concrete floor slab to prevent direct contact exposure and leaching to ground water and a sub-slab vapor depressurization system to mitigate subsurface vapor intrusion to indoor air in the former store.

A potential still exists for direct contact exposure to soil and leaching to ground water if the building is demolished and for vapor intrusion to indoor air if the sub-slab vapor depressurization system is not operated or maintained in the future. Although the floor slab and sub-slab vapor depressurization system currently may mitigate exposure to the contaminated soil by direct contact and vapor intrusion, respectively, there are no institutional control or operation and maintenance plan to ensure that there is no potential for future exposures.

The remediation completion report only provided a brief summary of the site assessment activities conducted between 2006 and 2008. Ohio EPA has not had the opportunity to review the site assessment reports in detail.

5.0 REFERENCES

Civil and Environmental Consultants, Inc., Remediation Completion Report, Former Custom Cleaners Store, 1260 Morse Road, Columbus, Ohio, October 22, 2009

Ohio EPA, DRAFT Pre-CERCLIS Screening Assessment Report, Former Custom Cleaners Store, 1260 Morse Road, Columbus, Ohio, June 29, 2010

United States Department of Agriculture, Soil Conservation Service in cooperation with the Ohio Department of Natural Resources, Division of Lands and Soil and the Ohio Agricultural Research and Development Center, Soil Survey of Franklin County, 1980

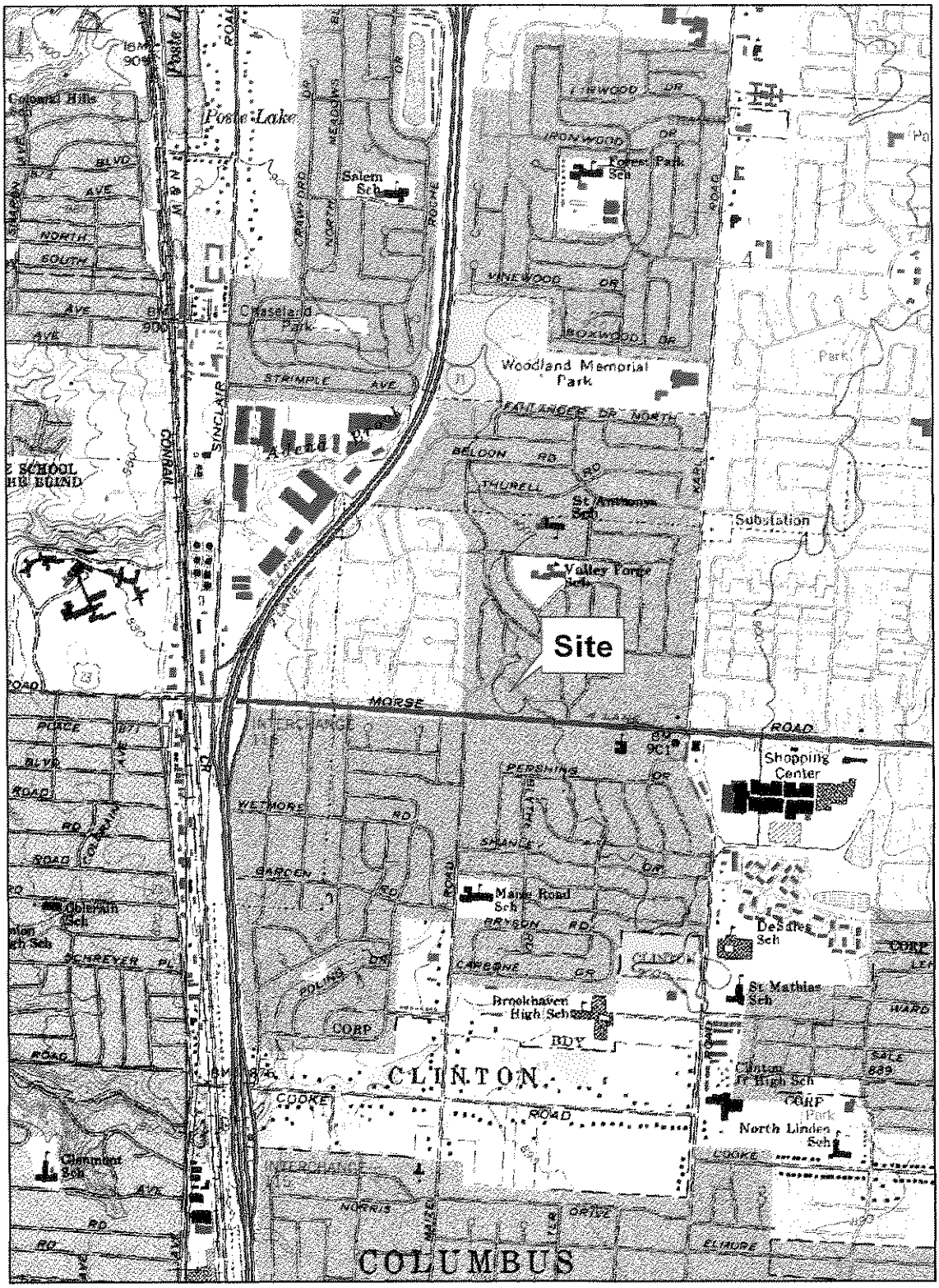

Figure 1
Site Location Map

Former Custom Cleaners
1260 Morse Road
Columbus, OH

N

0 125 250 500 Feet

Figure 2
Site Layout Map

Former Custom Cleaners
1260 Morse Road
Columbus, OH

REMEDIATION COMPLETION REPORT

FORMER CUSTOM CLEANERS STORE
1260 MORSE ROAD
COLUMBUS, OHIO

Prepared For:

Schneider, Link & Company

Prepared By:

CIVIL & ENVIRONMENTAL CONSULTANTS, INC
COLUMBUS, OHIO

CEC Project 082-369

OCTOBER 22, 2009

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1.0 BACKGROUND AND INTRODUCTION

This report provides a description of the remedial measures undertaken to date at the former Custom Cleaners store (herein identified as the "Site") located at 1260 Morse Road in Columbus, Ohio. See Figure 1. The Site is located in the central portion of the Woodward Park Shopping Plaza. Other retail stores also located in the shopping plaza include a Sav-A-Lot grocery store (located immediately west of the Site at 1254 Morse Road), Buckeye Finance (located immediately east of the Site at 1264 Morse Road), Waves Hair Design (1266 Morse Road), Phuong Hoang Chinese Restaurant at 1270 Morse Road, and Yogi's Hoagies Restaurant (1274 Morse Road).

Several environmental site assessments have been conducted relative to the Site since 2006. Information contained in these reports was evaluated before remedial actions were conducted at the Site.

- Phase I Environmental Site Assessment, Zwick Environmental Consultants, Inc (December 11, 2006)
- Phase II Environmental Assessment Report, Easton Environmental Engineering, April 17, 2007
- Limited Phase II Assessment Report, Civil & Environmental Consultants, Inc., April 1, 2008
- Phase II Assessment and Summary Report, Civil & Environmental Consultants, Inc., May 28, 2008

Based on the results of the sampling and analyses conducted during the phase II assessments above, it was determined that:

- Soils contaminated with dry cleaning chemicals were present along the western wall below the concrete floor of the Site.
- Soils contaminated with dry cleaning chemicals were present below the concrete floor in the former utilities/storage room in the back of the building.

- Soils contaminated with dry cleaning chemicals were present in the area behind the building on the north side.

- No dry cleaning chemicals were detected in any of the groundwater samples collected from the five monitoring wells installed around the shopping center property.

- Detectable concentrations of dry cleaning chemicals were detected in the sub-slab vapor samples collected in both of the stores located on either side of the Site, as well as in the indoor air sample collected inside the former dry cleaner store.

In order to determine the need to conduct remedial actions related to the detections of the dry cleaning chemicals as noted above, the following comparisons were made:

- Concentrations of dry cleaning chemicals detected in the soil samples were compared to the Ohio Voluntary Action Program (Ohio VAP) generic direct-contact standards applicable to commercial/industrial land use, as well as to the Ohio VAP derived leach-based soil values for the protection of groundwater. None of the results exceeded the applicable generic direct-contact standards; however several of the samples collected both inside and outside of the building exceeded the applicable leach-based soil values. Based on these results, remedial actions were conducted outside the building to mitigate the potential for chemicals in soil to contaminate groundwater. No actions were conducted to address the exceedences of the leach-based soil values for the soil samples collected inside the building because the building structure itself prevents precipitation from leaching the chemicals in the soil down to the groundwater.

- Perchloroethene was detected in the air sample collected inside the Site at 27 ug/m^3. Using Ohio EPA's acceptable risk factor of one person in 100,000, the acceptable concentration of perchloroethene in air is 17.9 ug/m^3; therefore the indoor air concentration of perchloroethene exceeded the acceptable risk level. Based on this result, remedial activities were conducted to mitigate this unacceptable risk.

- Using the Ohio EPA recommended Johnson & Ettinger (J&E) model to calculate the potential indoor air concentrations from the sub-slab vapor sample results, the

modeling showed that the dry cleaning chemicals detected in the sub-slab samples collected from beneath the floor slabs in the business spaces on either side of the Site would not migrate through the concrete slabs into those business units at levels that would exceed the Ohio EPA acceptable risk levels.

Based on the results of the evaluation summarized above, remedial activities were conducted to address the potential for dry cleaning chemicals in the contaminated soils outside the building to leach downward to groundwater; and to mitigate the concentrations of dry cleaning chemicals in the air inside the Site.

2.0 SOIL EXCAVATION AND DISPOSAL

Based on the results of the soil sampling results obtained from CEC's Phase II assessment, soils with concentrations of dry cleaning chemicals exceeding the leach-based soil values were excavated (to the extent practical) and removed from the area behind the Site. As shown on Figure 2, there are numerous utility lines and utilities located inside and adjacent to the area of soil contamination, including a high voltage electric transformer that serves the entire shopping center.

U.S.T. Environmental Contractor of Baltimore, Ohio conducted the excavation and backfill activities, and arranged for disposal of the contaminated soils at Michigan Disposal Waste Treatment in Belleville, Michigan. This disposal facility is managed by EQ Environmental Quality Company.

Remediation of the soils behind the building was initiated on May 19, 2009 and was completed with the placement of the clean backfill on May 27, 2009. As shown on Figure 3, soils were excavated to a depth of between 2 and 9 feet below ground level. In total, approximately 133 tons of soils were removed and transported to the Michigan Disposal facility. Copies of the hazardous waste manifests that accompanied each of the shipments are included in Appendix A. Pictures showing the excavation activities are presented in Appendix B.

Confirmation soils samples were collected from the walls and floor of the excavation at the locations shown on Figure 4. Initially, confirmation samples CS-1 through CS-10 were collected on May 20, 2009 after approximately 110 tons of soil was removed. Based on the results of the laboratory analyses of these samples which resulted in concentrations of perchloroethene above the leach-based soil value for Class II soils (but below the leach-based soil value for Class III soils) at CS-7, CS-9 and CS-10, additional excavation (approximately 23 tons) was performed on May 27, 2009, followed by the collection and analysis of confirmation samples CS-7A, CS-9A and CS-10A. The laboratory results of the soil sampling are presented in Table 1 and a copy of the analytical laboratory report is included in Appendix C. As shown on the table, all of the results from the confirmation sampling were below the leach-based soil values.

In the interim period between May 20 and May 27, a portion of the open excavation filled with water, apparently from a leaking city water supply line located just north of the excavation. Consequently, approximately 3,000 gallons of water had to be removed from the excavation on May 27th before the additional soil was excavated. The contaminated water was transported and

disposed of as a hazardous waste at Environmental Enterprises, Inc. of Cincinnati, Ohio. A copy of the hazardous waste manifest that accompanied the shipment is included in Appendix A.

At the conclusion of the soil excavation activities conducted on the north side of the building, the excavation was backfilled with #304 fill and compacted in 1-foot lifts with a gasoline-powered soil compactor. Following the placement and compaction of the backfill to a depth of approximately 1 foot below original ground level, the remaining excavation was restored to original site condition and grade level, as appropriate. In areas which were grass, top soil was brought in and the area was planted with grass seed and covered with straw; where there was concrete, the area was finished with a 6-inch thick layer of concrete. Photos showing the backfilling activities and final restoration are included in Appendix B.

3.0 SUB-SLAB VENTING AND FLOOR SEALING

Additional remedial measures were implemented in order to mitigate the migration of dry cleaning chemicals upward into the building air space from the soils beneath the concrete floor. These measures included the installation of a sub-slab depressurization (forced venting) system; and sealing the top of the concrete floor slab with an epoxy resin sealant. Both of the systems were installed by Performance Site Environmental of Columbus, Ohio.

The sub-slab depressurization system consists of a 6-inch diameter PVC pipe with one end protruding through the floor slab into the gravel sub-base material. The other end of the pipe extends vertically up the central portion of the west wall of the building space to the structural section of the ceiling, and then goes horizontally approximately 30 feet south, where it turns vertically where it is tied into an existing roof penetration. At this location, there is a low-speed electrically-powered exhaust fan located inside the pipe that produces a negative pressure to air inside the piping and the vapors beneath the concrete floor slab. This action serves as a preferential pathway for any trapped vapors under the floor to be exhausted through the piping and vent to air outside the building, rather than migrate from the soils to inside the building spaces.

Application of the floor sealant was conducted using the following method:

- All piping and other penetrations along the western side of the former dry cleaners, as well as the unnecessary protrusions in the rear storage/utilities room were cut off below grade and covered with a layer of sealing concrete.

- The top layer (roughly ½ inch) of the concrete floor was physically removed to provide a proper surface for the adhesion of the sealant.

- Cracks and all other breaches in the concrete were filled with an epoxy resin sealant.

- The epoxy resin sealant was applied and spread evenly over the entire are of the floor in the main portion of the business space, including the bathroom and utilities/storage room.

Photos showing the floor restoration activities are included in Appendix B.

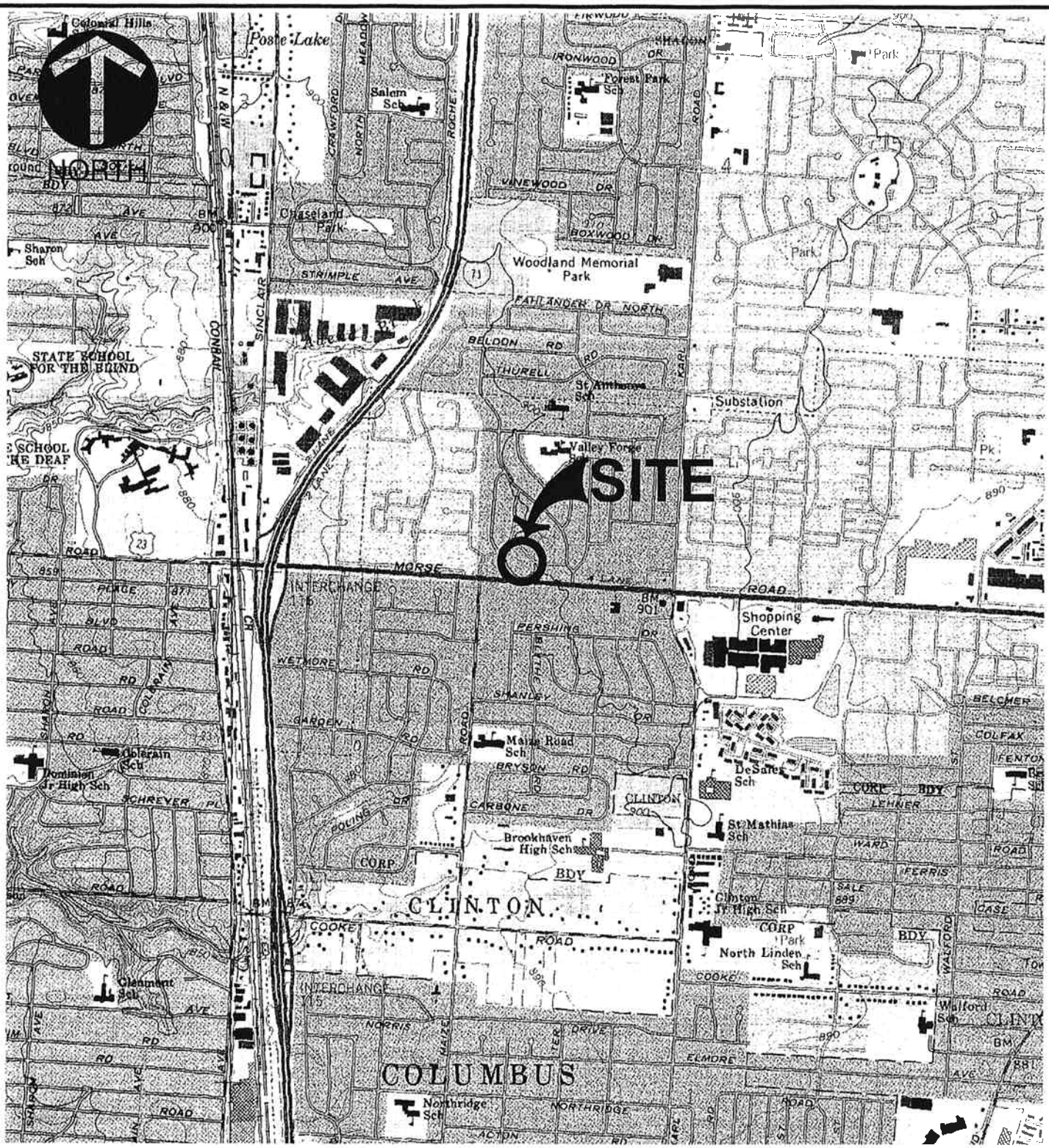
4.0 CONFIRMATION TESTING

To assess the effectiveness of the floor sealing and depressurization system, CEC collected a sample of the ambient air inside the business space. The sample was collected over a 4-hour period on September 8, 2009. All of the doors were kept closed and the heating/cooling ventilation system was inoperative during the sampling period. Sampling was conducted using a Summa canister which was obtained and returned to ALS Laboratory Group of Cincinnati, Ohio for analysis of perchloroethene and trichloroethene (a bio-degradation compound of perchloroethene). The results were below the laboratory reporting limits associated with each of these compounds. A copy of the ALS report is included in Appendix C.

5.0 CONCLUSIONS

Based on the results of the soil and air confirmation sampling conducted after the completion of the remedial activities conducted at the former dry cleaners, the remedies were effective in reducing the levels of contaminants in soil and ambient air to below Ohio EPA action levels, and no additional remedial activities are warranted.

FIGURES



REFERENCE

USGS 7.5 MIN. TOPOGRAPHIC QUADRANGLE Northeast Columbus, OH, DATED 1995.

SCALE IN FEET

0 2000 4000

* HAND SIGNATURE ON FILE

Civil & Environmental Consultants, Inc.

8740 Orion Place, Suite 100 - Columbus, OH 43240

614-540-6633 · 888-598-6808

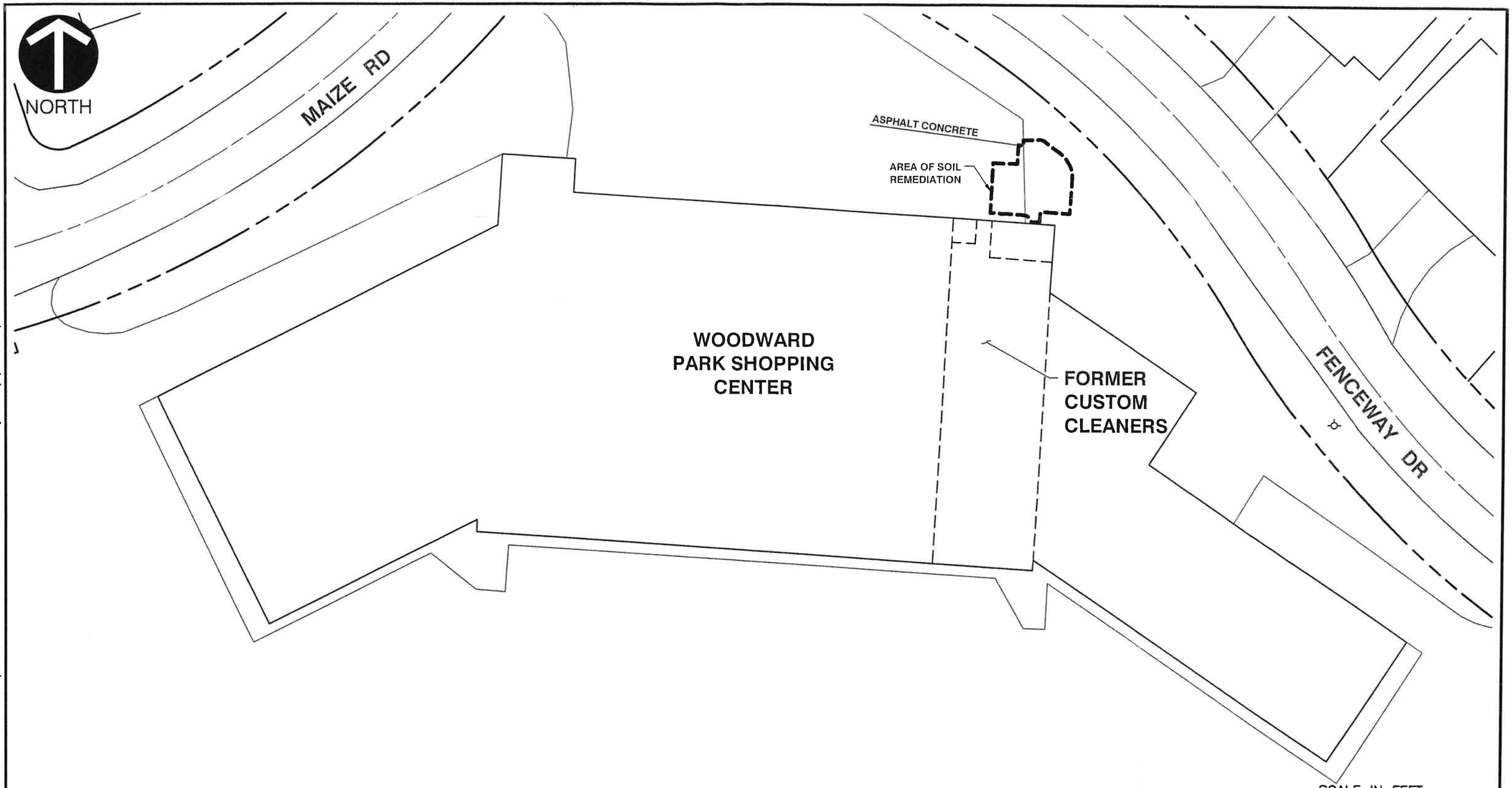
www.cecinc.com

WOODWARD PARK SHOPPING CENTER
FORMER CUSTOM CLEANERS
REMEDIATION COMPLETION REPORT
COLUMBUS, OHIO

SITE LOCATION MAP

DRAWN BY:	BTW	CHECKED BY:	JSC	APPROVED BY:	RJW*	FIGURE NO.:
DATE:	OCT 2009	DWG SCALE:	1"=2000'	PROJECT NO:	082-369	1

G:\PROJECTS\2008\082369\DWG\REMEDIATION COMPLETION REPORT\071706 FIGURE 1-SITE LOCATION MAP.DWG\FIGURE NO.1\ (BWORKMAN) - OCT 21, 2009 - 9:7:43



* HAND SIGNATURE ON FILE

REFERENCE

TOPOGRAPHIC INFORMATION BASED UPON FRANKLIN COUNTY AUDITOR'S INFORMATION DATED 2006.

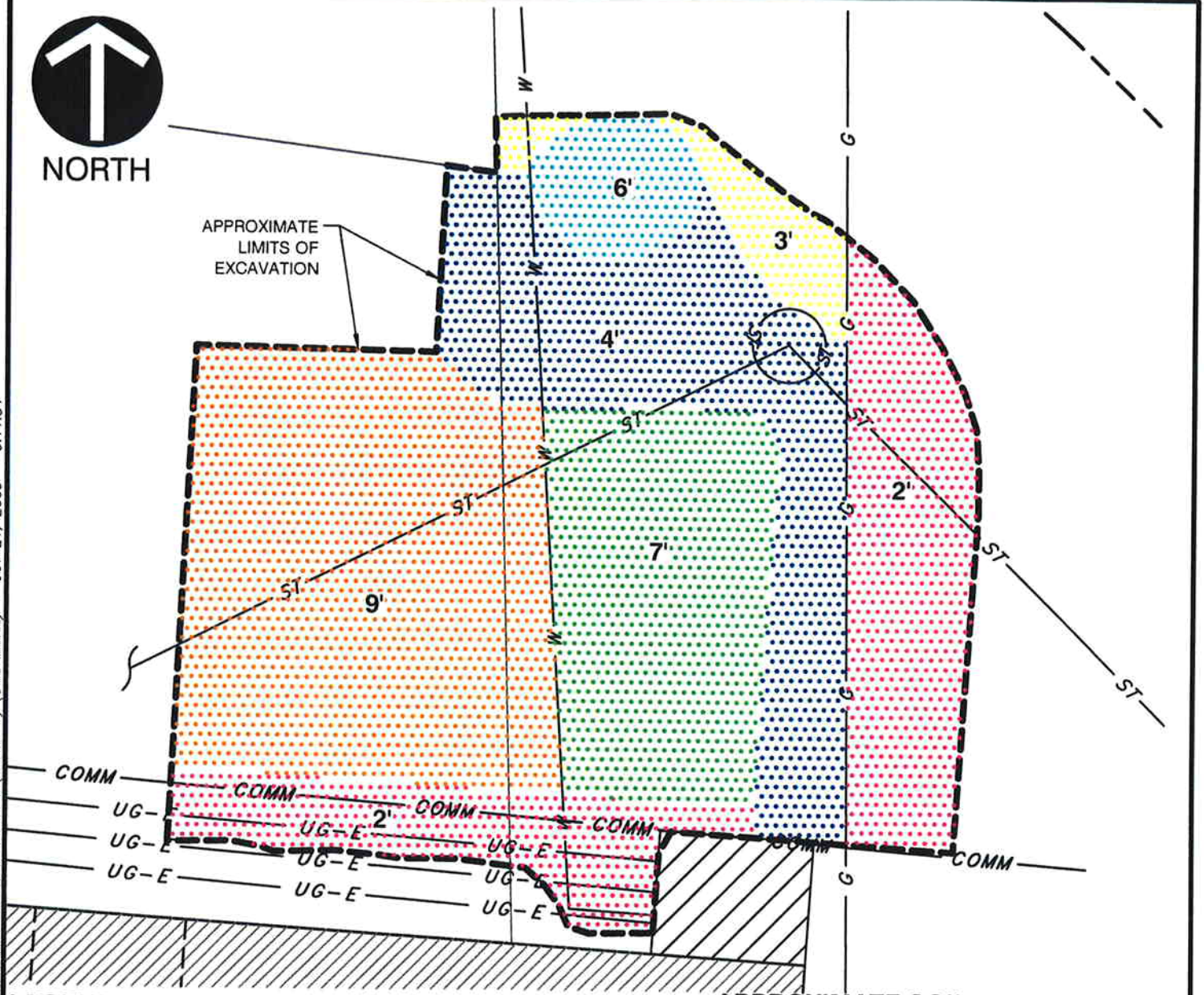
Civil & Environmental Consultants, Inc.
8740 Orion Place, Suite 100 - Columbus, OH 43240
614-540-6633 · 888-598-6808
www.cecinc.com

WOODWARD PARK SHOPPING CENTER
FORMER CUSTOM CLEANERS
REMEDIATION COMPLETION REPORT
COLUMBUS, OHIO

SITE FEATURES MAP

DRAWN BY:	BTW	CHECKED BY:	JSC	APPROVED BY:	RJW*	FIGURE NO.:	2
DATE:	OCT 2009	DWG SCALE:	1"=30'	PROJECT NO:	082-369		

G:\PROJECTS\2008\082369\DWG\REMEDIATION COMPLETION REPORT\071706 FIGURE 2 SUPPLIMENTAL-SAMPLE LOCATIONS.DWG{LAYOUT1} (BWORKMAN) - OCT 21, 2009 - 9:9:34



LEGEND

APPROXIMATE LIMITS OF EXCAVATION	
ST	EXISTING STORM SEWER
G	EXISTING GAS LINE
W	EXISTING WATER SERVICE
UG-E	EXISTING ELECTRIC SERVICE
COMM	EXISTING CABLE/DATA SERVICE

APPROXIMATE SOIL EXCAVATION DEPTHS

- 2'
- 3'
- 4'
- 6'
- 7'
- 9'

NOTE

APPROXIMATE UTILITY LOCATIONS ARE BASED UPON OBSERVATIONS DURING SOIL EXCAVATION

SCALE IN FEET

0 5 10

* HAND SIGNATURE ON FILE

Civil & Environmental Consultants, Inc.
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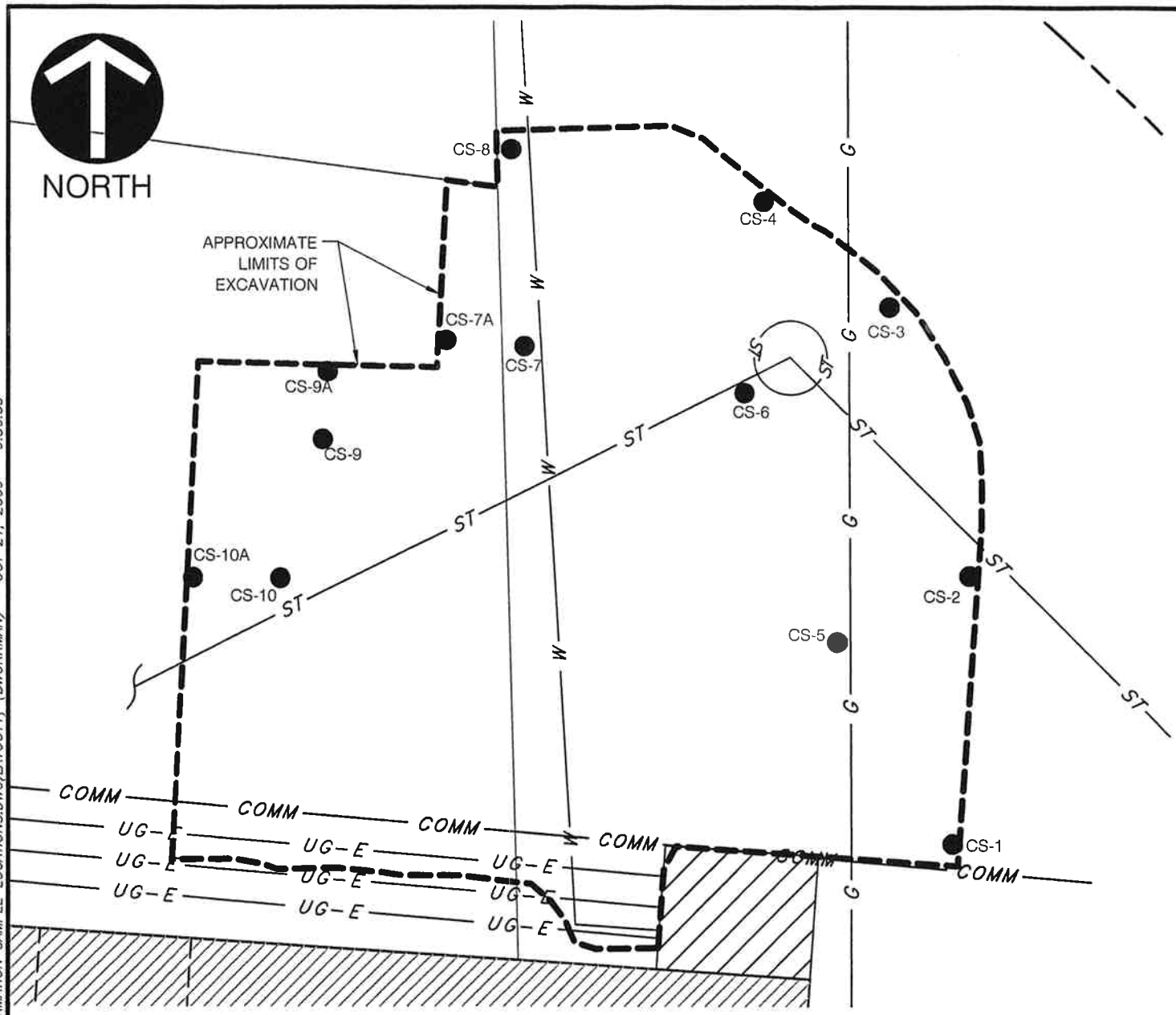
www.cecinc.com

WOODWARD PARK SHOPPING CENTER
FORMER CUSTOM CLEANERS
REMEDIATION SUMMARY REPORT
COLUMBUS, OHIO

APPROXIMATE LIMITS OF EXCAVATION

DRAWN BY:	BTW	CHECKED BY:	JSC	APPROVED BY:	RJW*	FIGURE NO.:	3
DATE:	OCT 2009	DWG SCALE:	1"=5'	PROJECT NO:	082-369		

G:\PROJECTS\2008\082369\DWG\REMEDIATION COMPLETION REPORT\071706 APPROX. LIMTS OF EXCAVATION.DWG(LAYOUT1) (BWORKMAN) - OCT 21, 2009 - 9:11:34



LEGEND

----------	APPROXIMATE LIMITS OF EXCAVATION
——— ST ———	EXISTING STORM SEWER
——— G ———	EXISTING GAS LINE
——— W ———	EXISTING WATER SERVICE
——— UG-E ———	EXISTING ELECTRIC SERVICE
——— COMM ———	EXISTING CABLE/DATA SERVICE
● CS-10	CONFIRMATION SAMPLE LOCATION

NOTE

APPROXIMATE UTILITY LOCATIONS ARE BASED UPON OBSERVATIONS DURING SOIL EXCAVATION

SCALE IN FEET

0 5 10

* HAND SIGNATURE ON FILE

Civil & Environmental Consultants, Inc.
8740 Orion Place, Suite 100 - Columbus, OH 43240
614-540-6633 · 888-598-6808
www.cecinc.com

WOODWARD PARK SHOPPING CENTER
FORMER CUSTOM CLEANERS
REMEDIATION SUMMARY REPORT
COLUMBUS, OHIO

CONFIRMATION SAMPLES LOCATIONS

DRAWN BY:	BTW	CHECKED BY:	JSC	APPROVED BY:	RJW*	FIGURE NO.:	4
DATE:	OCT 2009	DWG SCALE:	1"=5'	PROJECT NO:	082-369		

G:\PROJECTS\2008\082369\DWG\REMEDIATION COMPLETION REPORT\071706 CONFIRMATION SAMPLE LOCATIONS.DWG[LAYOUT1] (BWORKMAN) - OCT 21, 2009 - 9:30:55

TABLES

TABLE 1
SUMMARY OF CONFIRMATION SOIL ANALYTICAL RESULTS
FORMER CUSTOM CLEANERS
1260 MORSE ROAD
COLUMBUS, OHIO

	CONFIRMATION SOIL SAMPLING													OHIO VAP	
Sample ID	CS-1	CS-2	CS-3	CS-4	CS-5	CS-6	CS-7	CS-7A	CS-8	CS-9	CS-9A	CS-10	CS-10A	Generic Direct-Contact Standard [1]	Derived Leach-Based Soil Value [2]
Sample Depth (ft)	2	2	2	3	4	5	2	2	2	7	7	7	7		
Date Collected	5/20/2009	5/20/2009	5/20/2009	5/20/2009	5/20/2009	5/20/2009	5/20/2009	5/27/2009	5/20/2009	5/20/2009	5/27/2009	5/20/2009	5/27/2009		
Volatile Organic Compounds, ug/kg															
Chloroform	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	**2.13**	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	32,000	NS
Tetrachloroethene	<2.0	<2.0	**5.87**	<2.0	**8.91**	**12.1**	**155**	**33.4**	<2.0	**112**	**79.8**	**269**	**37.1**	320,000	270
Trichloroethene	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	**11**	<2.0	**4.45**	380,000	48

NOTES:

(1) Ohio VAP Generic Direct-Contact Standard applicable to Commercial/Industrial Land Use

(2) Ohio VAP Derived Leach-Based Soil Vaulue based on a Type III Soil Class.

Only detected compounds are listed.

NS indicates no standard published.

BOLD indicates compound was identified above the detection limit.

Indicates sample result before excavation

APPENDIX A

WASTE DISPOSAL DOCUMENTATION

TK - 132

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
OHD 065 886 461	1	(740) 928-1506	006189004 JJK

GENERATOR

5. Generator's Name and Mailing Address: WOODWARD PARK SHOPPING CE, 9972-A BROWN PARK DRIVE, HILLIARD, OH 43026
Generator's Phone: (614) 876-8500

Generator's Site Address (if different than mailing address): 1260 MORSE RD, COLUMBUS, OH 43229

6. Transporter 1 Company Name: US BULK TRANSPORT INC — U.S. EPA ID Number: PAD 987 347 515

7. Transporter 2 Company Name — U.S. EPA ID Number:

8. Designated Facility Name and Site Address: WAYNE DISPOSAL, INC.SITE 2 LANDFILL, 49350 N I-94 SERVICE DRIVE, BELLEVILLE, MI 48111
Facility's Phone: (800) 592-5489 — U.S. EPA ID Number: MID 048 090 633

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
X	1. RQ, NA3077, Hazardous waste, solid, n.o.s., 9, PGIII	001	DT	EST 20	T	F002		
	2.							
	3.							
	4.							

14. Special Handling Instructions and Additional Information
01. D088074WDI / CONTAMINATED SOIL / ERG #171

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: JEFFREY A. LAMKE — Signature — Month: 05 Day: 27 Year: 09

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: GENE LATTICH — Signature — Month: 5 Day: 27 Year: 09

Transporter 2 Printed/Typed Name — Signature — Month — Day — Year

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

18b. Alternate Facility (or Generator) — U.S. EPA ID Number

Facility's Phone:

18c. Signature of Alternate Facility (or Generator) — Month — Day — Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
H132			

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name — Signature — Month — Day — Year

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

GENERATOR'S INITIAL COPY

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
OHD 065 988 461	1	(740) 928-1506	006189001 JJK

GENERATOR

5. Generator's Name and Mailing Address: WOODWARD PARK SHOPPING CE
3972-A BROWN PARK DRIVE
HILLIARD, OH 43026
Generator's Phone: (614) 876-8500

Generator's Site Address (if different than mailing address)
1260 MORSE RD
COLUMBUS, OH 43229

6. Transporter 1 Company Name: US BULK TRANSPORT INC
U.S. EPA ID Number: PAD 987 347 515

7. Transporter 2 Company Name
U.S. EPA ID Number

8. Designated Facility Name and Site Address: WAYNE DISPOSAL, INC SITE 2 LANDFILL
49350 N I-94 SERVICE DRIVE
BELLEVILLE, MI 48111
Facility's Phone: (800) 592-5489
U.S. EPA ID Number: MID 048 090 633

9a. HM	9b. U.S. DOT Description (Including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
X	1. RQ, NA3077, Hazardous waste, solid, n.o.s., 9, PGIII	001	DT	23	T	F002
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information
01. D059074WD01 / CONTAMINATED SOIL / ERG #171

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: JEFFREY A. LINK
Signature
Month: 05 Day: 19 Year: 09

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: GARY FIELD
Signature
Month: 05 Day: 19 Year: 09

Transporter 2 Printed/Typed Name
Signature
Month Day Year

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☒ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

18b. Alternate Facility (or Generator)
U.S. EPA ID Number
Facility's Phone:

18c. Signature of Alternate Facility (or Generator)
Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
H132			

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name
Signature
Month Day Year

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

GENERATOR'S INITIAL COPY

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UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
OHD 065 988 461	1	(740) 928-1500	006169002 JJK

GENERATOR

5. Generator's Name and Mailing Address: WOODWARD PARK SHOPPING CTR
8972-A BROWN PARK DRIVE
HILLIARD, OH 43026
Generator's Phone: (614) 876-6500

Generator's Site Address (if different than mailing address)
1260 MORSE RD
COLUMBUS, OH 43229

6. Transporter 1 Company Name: US BULK TRANSPORT INC
U.S. EPA ID Number: PAD 987 347 515

7. Transporter 2 Company Name
U.S. EPA ID Number

8. Designated Facility Name and Site Address: WAYNE DISPOSAL, INC SITE 2 LANDFILL
49350 N I-94 SERVICE DRIVE
BELLEVILLE, MI 48111
Facility's Phone: (800) 592-5489
U.S. EPA ID Number: MID 048 090 633

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
X	1. RQ, NA3077, Hazardous waste, solid, n.o.s., 9, PGIII	001	DT	22	T	F002
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information
01. D099074WDI / CONTAMINATED SOIL / ERG #171

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: JEFFREY M. LINK
Signature:
Month: 05 Day: 19 Year: 09

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Chad Casper
Signature:
Month: 5 Day: 20 Year: 09

Transporter 2 Printed/Typed Name
Signature
Month Day Year

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

18b. Alternate Facility (or Generator)
U.S. EPA ID Number
Facility's Phone:

18c. Signature of Alternate Facility (or Generator)
Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
H132			

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name
Signature
Month Day Year

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

GENERATOR'S INITIAL COPY

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
OHD 065 988 461	1	(740) 928-1506	006189013 JJK

GENERATOR

5. Generator's Name and Mailing Address: WOODWARD PARK SHOPPING CE
3972-A BROWN PARK DRIVE
HILLIARD, OH 43026
Generator's Phone: (614) 876-6500

5. Generator's Site Address (if different than mailing address)
1260 MORSE RD
COLUMBUS, OH 43229

6. Transporter 1 Company Name: US BULK TRANSPORT INC
U.S. EPA ID Number: PAD 987 347 515

7. Transporter 2 Company Name
U.S. EPA ID Number

8. Designated Facility Name and Site Address: MICHIGAN DISPOSAL WASTE TREATMENT PI
49350 N I-94 SERVICE DRIVE
BELLEVILLE, MI 48111
Facility's Phone: (800) 592-5489
U.S. EPA ID Number: MID 000 724 831

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
X	1. RQ, NA3077, Hazardous waste, solid, n.o.s. (Tetrachloroethylene), 9, PGIII	001	DT	23	T	F002 D019 D018 D021 D028 D029
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information
1. E099031MDI / F002 CEC B-3 (2-4') / ERG #171

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: [illegible] Signature: [signature] Month: 05 Day: 19 Year: 03

INTL

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: CARL GEISEL Signature: [signature] Month: 5 Day: 19 Year: 03

Transporter 2 Printed/Typed Name Signature Month Day Year

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:

18b. Alternate Facility (or Generator) U.S. EPA ID Number
Facility's Phone:

18c. Signature of Alternate Facility (or Generator) Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
H075			

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name Signature Month Day Year

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

GENERATOR'S INITIAL COPY

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
OHD 065 988 461	1	(740) 928-1506	006189003 JJK

GENERATOR

5. Generator's Name and Mailing Address: WOODWARD PARK SHOPPING CE
9972-A BROWN PARK DRIVE
HILLIARD, OH 43026
Generator's Phone: (614) 876-9500

Generator's Site Address (if different than mailing address):
1260 MORSE RD
COLUMBUS, OH 43229

6. Transporter 1 Company Name: US BULK TRANSPORT INC
U.S. EPA ID Number: PAD 987 347 515

7. Transporter 2 Company Name
U.S. EPA ID Number

8. Designated Facility Name and Site Address: WAYNE DISPOSAL, INC SITE 2 LANDFILL
49350 N I-94 SERVICE DRIVE
BELLEVILLE, MI 48111
Facility's Phone: (800) 592-5489
U.S. EPA ID Number: MID 048 090 633

9a. HM	9b. U.S. DOT Description (Including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
X	1. RQ, NA3077, Hazardous waste, solid, n.o.s., 9, PGIII	001	DT	27 36	T	F002
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information
01: D099874WDI / CONTAMINATED SOIL / ERG #171

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable International and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: [illegible] Signature: [signature] Month: 5 Day: 26 Year: 07

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: [illegible] Signature: [signature] Month: 5 Day: 26 Year: 07

Transporter 2 Printed/Typed Name Signature Month Day Year

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

18b. Alternate Facility (or Generator) U.S. EPA ID Number
Facility's Phone:

18c. Signature of Alternate Facility (or Generator) Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
H132			

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name Signature Month Day Year

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

GENERATOR'S INITIAL COPY

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UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: OHD 065 986 461
2. Page 1 of: 1
3. Emergency Response Phone: (740) 828-1806
4. Manifest Tracking Number: 006189014 JJK

GENERATOR

5. Generator's Name and Mailing Address: WOODWARD PARK SHOPPING CE
8972-A BROWN PARK DRIVE
HILLIARD, OH 43026
Generator's Phone: (614) 876-8500

Generator's Site Address (if different than mailing address)
1260 MORSE RD
COLUMBUS, OH 43229

6. Transporter 1 Company Name: US BULK TRANSPORT INC
U.S. EPA ID Number: PAD 987 347 515

7. Transporter 2 Company Name:
U.S. EPA ID Number:

8. Designated Facility Name and Site Address: MICHIGAN DISPOSAL WASTE TREATMENT PI
49350 N I-94 SERVICE DRIVE
BELLEVILLE, MI 48111
Facility's Phone: (800) 592-5489
U.S. EPA ID Number: MID 000 724 831

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
X	1. RQ, NA3077, Hazardous waste, solid, n.o.s. (Tetrachloroethylene), 9, PGIII	001	DT	EST 20	T	F002 D018 D019 D021 D028 D029
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information
1 E0999091MDI / F002 CEC B-3 (2-4') / ERG #171

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: JEFFREY P. KINK
Signature:
Month: 5 Day: 20 Year: 09

INTL

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Dary Frable
Signature:
Month: 05 Day: 20 Year: 09

Transporter 2 Printed/Typed Name:
Signature:
Month: Day: Year:

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

18b. Alternate Facility (or Generator)
U.S. EPA ID Number
Facility's Phone:

18c. Signature of Alternate Facility (or Generator)
Month: Day: Year:

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
H075			

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name:
Signature:
Month: Day: Year:

T-35

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 20

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: OHD066980461
2. Page 1 of: 1
3. Emergency Response Phone: [illegible]
4. Manifest Tracking Number: 001999622 FI

5. Generator's Name and Mailing Address:
Custom Cleaners, Inc.
1200 Morse Road
Columbus, OH 43229

Generator's Site Address (if different than mailing address)

Generator's Phone: (614) 876-8800

6. Transporter 1 Company Name: Midwest Environmental Transport, Inc. — U.S. EPA ID Number: OHD0000053[illegible]

7. Transporter 2 Company Name — U.S. EPA ID Number

8. Designated Facility Name and Site Address — U.S. EPA ID Number: OHD083377011[illegible]
Environmental Enterprises, Inc.
4650 Spring Grove Avenue
Cincinnati, OH 45232

Facility's Phone: (513) 541-1823

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
X	1. RQ, Hazardous waste liquid, n.o.s., (Chlorinated Solvents), 9, NA3082, PGIII (F002)	001	TT	3,000	G	F002
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information
X76405 ERG # 171 EEI Work Order #03-112010 Emergency Contact: Emergency Response Coordina[illegible] (800) 392-1003 and contact [illegible]

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, package[d], marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: [illegible] — Signature: [illegible] — Month: 5 Day: 27

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit: ______
Transporter signature (for exports only): Date leaving U.S.:

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: James Crawford — Signature: James Crawford — Month: 5 Day: 27
Transporter 2 Printed/Typed Name — Signature — Month Day

18. Discrepancy
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejectio[n]
Manifest Reference Number:
18b. Alternate Facility (or Generator) — U.S. EPA ID Number
Facility's Phone:
18c. Signature of Alternate Facility (or Generator) — Month Day

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)
1. 2. 3. 4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name — Signature — Month Day

GENERATOR | INT'L | TRANSPORTER | DESIGNATED FACILITY

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

GENERATOR'S INITIAL [COPY]

ENVIRONMENTAL ENTERPRISES, INC.
RESTRICTED WASTE NOTIFICATION & CERTIFICATION

Generator: **Custom Cleaners, Inc.** Manifest Document No: **0001999622FLE** State Manifest No: _____

This shipment contains waste(s) restricted from land disposal under 40 CFR Part 268 and OAC Chapter 3745-59. A copy of this notice and all supporting analysis must be kept for three (3) years.

INSTRUCTIONS

Column 1: List all waste codes that apply to this waste.
Column 2: Mark the appropriate treatability Group that applies to the waste at the point of Generation. NWW (Non-Waste Water) or WW (Waste Water) Wastewater is <1% total suspended solids and <1% total organic carbon.
Column 3: Enter legend if any for the subcategory that applies to this waste from the subcategory list below.
Column 4: Enter A for Restricted Waste Requiring Treatment to the Appropriate Treatment Standard. If this does not apply use Restricted Waste Notification Form 03.
Column 5: If D001-D043 or F001-F005, enter the Reference # for All underlying hazardous constituents that may be present in the waste from EEI's Restricted Waste Notification & Certificate Addendum for Underlying Hazardous Constituent (UHC) Treatment Standards.

EEI Profile Number	1. Waste Code	2. Treatability Group	3. Subcategory Legend (if any)	4. How Waste must be Managed (A-N)	5. Reference # of all UHCs in waste for D001-D043, Soil & Debris Reference # of F001-F005 constituents
X79405	F002	NWW	NONE	A	214

FOR ADDITIONAL PROFILES, USE ATTACHED CONTINUATION FORM.

CERTIFICATION! (Please sign)

The information provided is true and correct and is based on analysis of a representative sample of the waste in accordance with EPA guidelines Document SW-846 EPA 60012-80018 or on my thorough knowledge of the waste.

Signature Vicky Went for on behalf of Title Waste Generator Date 5/27/09

EEI PERMITTED WASTE CODES THAT HAVE SUBCATEGORIES

Codes	Legend #	Subcategory
D001	D1A	High TOC ignitable liquids. ≥10% TOC
	D1B	Ignitable characteristic wastes except high TOC >10% ignitable liquids
D003	D3A	Reactive Sulfides
	D3B	Other Reactives
	D3C	Water Reactive
	D3D	Reactive Cyanide
	D3E	Explosives
D006	D6A	Cadmium Containing Batteries
D008	D8A	Lead Acid Batteries
D009	D9A	Non-wastewater High Mercury-Organic Subcategory (≥ 260 PPM total Mercury)
	D9B	*Non-wastewater High Mercury-Inorganic Subcategory*
	D9C	Non-wastewater that contains ≤ 260 mg/kg total mercury (Low Mercury Subcategory)
F003	F3A	Wastes that contain only one or more of the following solvents: carbon disulfide, cyclohexanone, and/or methanol
F005	F5A	Wastes that contain only one or more of the following solvents: carbon disulfide, cyclohexanone, and/or methanol
	F5B	Contains only 2-Nitropropane
	F5C	Contains only 2-Ethoxyethanol
K069	K69A	Calcium Sulfate (Low Lead)
	K69B	Non-Calcium Sulfate (High Lead)
P092	P92A	Phenyl mercuric acetate non-wastewaters, regardless of their total mercury content, that are not incinerator residues or are not residues from RMERC
	P92B	All phenyl mercury acetate wastewaters
U151	U151A	Non-wastewaters that contain less then 260 mg/kg total mercury and are not residues from RMERC
	U151B	*All (mercury) wastewaters*

GENERATOR COPY
PLEASE RETAIN FOR
YOUR RECORDS

HOW WASTE MUST BE MANAGED

A. RESTRICTED WASTE REQUIRING TREATMENT TO THE APPROPRIATE TREATMENT STANDARD
This shipment contains restricted waste that must be treated to comply with applicable treatment standards and/or prohibitions prior to land disposal.
For All other treatment standards use Restricted Waste Notification Form 03.

F001-F005 Spent Solvent and Inorganic Treatment Standards:
Please see 'EEI's Restricted Waste Notification & Certificate Addendum for Underlying Hazardous Constituent Treatment Standards' for treatment standard

F001 & F002
44) Carbon Tetrachloride
48) Chlorobenzene
81) o-Dichlorobenzene
157) Methylene Chloride
214) Tetrachloroethylene
225) 1,1,1-Trichloroethane
226) 1,1,2-Trichloroethane
233) 1,1,2-Trichloro-1,2,2-Trifluoroethane
227) Trichloroethylene
228) Trichloromonofluoromethane

F003
4) Acetone
35) n-Butyl Alcohol
68) Cyclohexanone
121) Ethyl Acetate
122) Ethyl Bezene
124) Ethyl Ether
150) Methanol
159) Methyl Isobutyl Ketone
238) Xylene

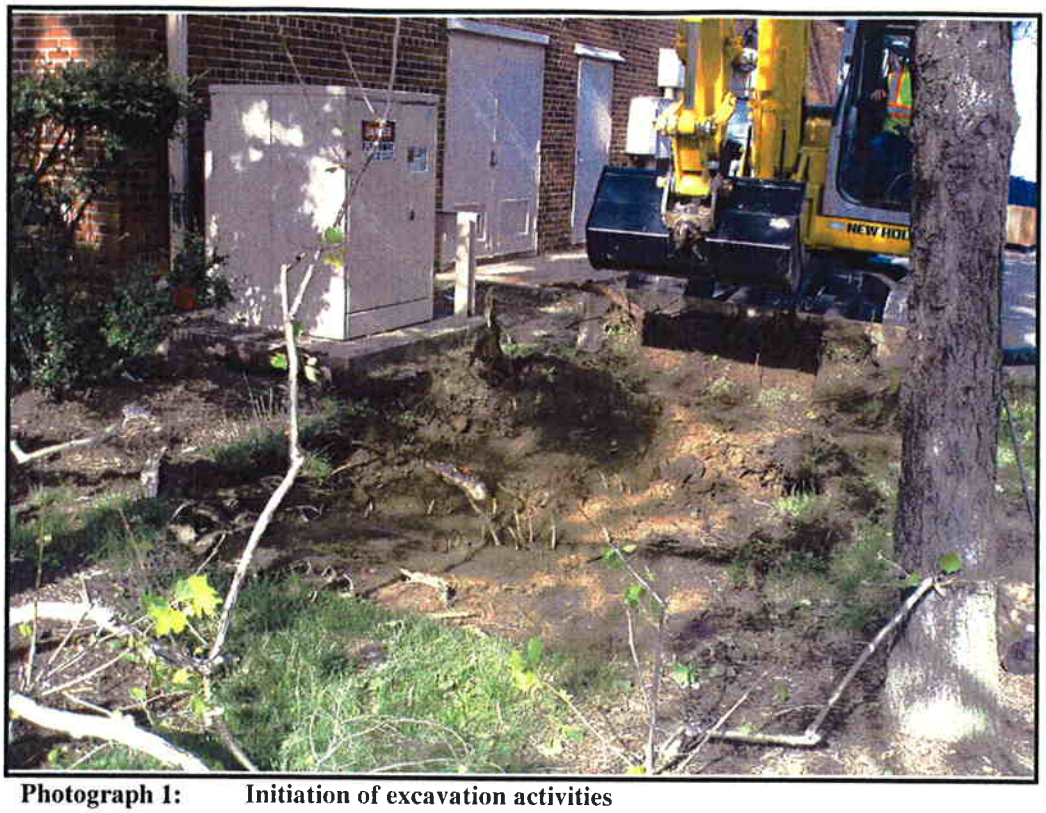
F004
65 & 66) Cresols (m & p isomers)
64, 65, & 66) Cresylic Acid Mixed (o, m, & p isomers)
64) o-Cresols
170) Nitrobenzene

F005
25) Benzene
43) Carbon Disulfide
144) Isobutyl Alcohol
158) Methyl Ethyl Ketone
206) Pyridine
219) Toluene

Inorganics
239) Antimony
240) Arsenic
241) Barium
242) Beryllium
243) Cadmium
244) Chromium
245) Cyanide (total)
246) Cyanide (amenable)
247) Fluoride
248) Lead
249) Mercury (NWW from retort)
250) Mercury (all others)
251) Nickel
252) Selenium
253) Silver
254) Sulfide
255) Thallium
256) Vanadium
257) Zinc

APPENDIX B

SITE PHOTOS



Photograph 1: Initiation of excavation activities

Photograph 2: Hand excavating around buried utilities

Photograph 3: Excavating around manhole

Photograph 4: Removal of concrete slab

Photograph 5: **Contaminated soil removal from underneath concrete slab**

Photograph 6: **Excavation around piping and utilities**

Photograph 7: **Water line exposed**

Photograph 8: **Flags showing locations of confirmation samples**

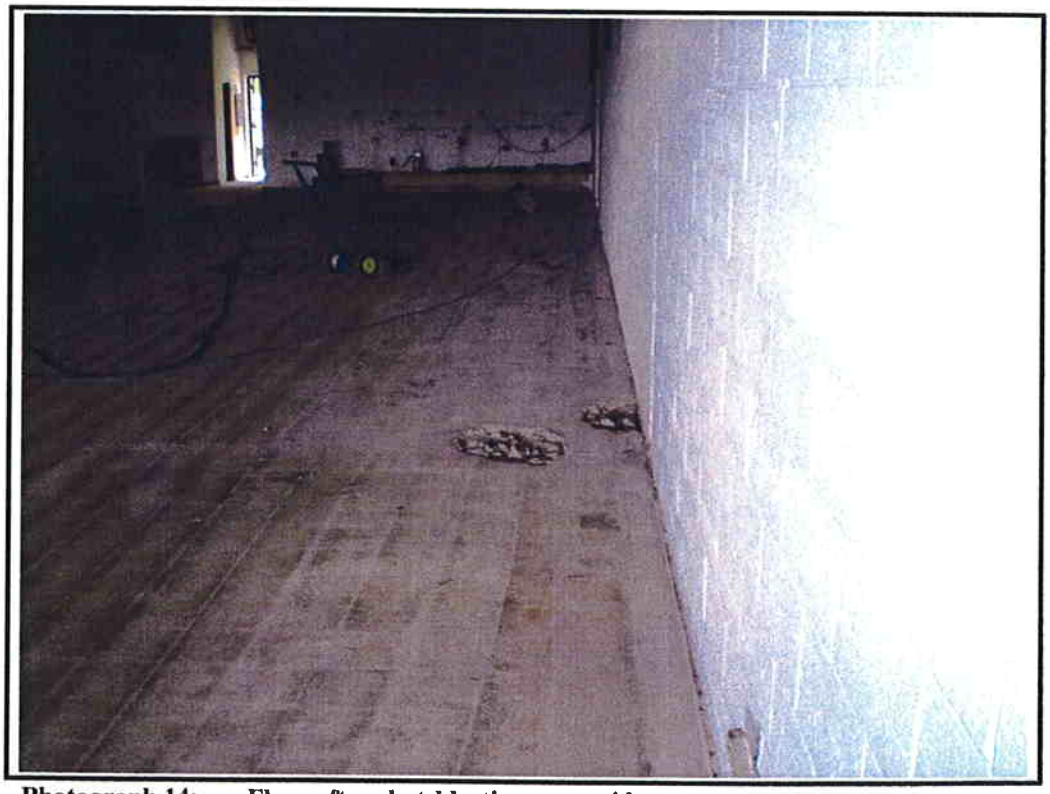
Photograph 9: Water from leaking water valve entered open excavation

Photograph 10: Additional soil removal following removal of water

Photograph 11: Compaction of backfill materials

Photograph 12: New concrete and grass seeded area

Photograph 13: Floor after shot-blasting – west side



Photograph 14: Floor after shot-blasting – east side

Photograph 15: **Sealant applied to all cracks**

Photograph 16: **Finished floor after epoxy sealant application**

APPENDIX C

LABORATORY REPORTS

ADVANCED ANALYTICS LABORATORIES, INC.
1025 CONCORD AVENUE
COLUMBUS, OHIO 43212
(614) 299-9922 FAX (614) 299-4002
Analysis & Testing - Quality Control Programs - Research & Development

Civil & Environmental Consultants, Inc.
8740 Orion Place, Suite 100
Columbus, OH 43240

Date Reported: 5/21/09

Project: 082-369
P.O. Number: [none]
Project Manager: Ron Wells

ANALYTICAL RESULTS

Client Sample I.D.: CS-1 (2')
AALI Sample I.D.: 0905084-01 (Soil)

Date Received: 5/20/09
Date Collected: 5/20/09

Analyte	Result	Units	Reporting Limit	Method	Notes
8260 VOC by GCMS	**Date Analyzed:** 5/20/09				
Surrogate: 1,2-Dichloroethane-d4	*96.6 %*		*80-120*		
Surrogate: Toluene-d8	*95.8 %*		*80-120*		
Surrogate: 4-Bromofluorobenzene	*96.8 %*		*80-120*		
1,1,1,2-Tetrachloroethane	ND	ug/kg	2.00	EPA 8260	
1,1,1-Trichloroethane	ND	ug/kg	2.00	EPA 8260	
1,1,2,2-Tetrachloroethane	ND	ug/kg	2.00	EPA 8260	
1,1,2-Trichloroethane	ND	ug/kg	2.00	EPA 8260	
1,1-Dichloroethane	ND	ug/kg	2.00	EPA 8260	
1,1-Dichloroethene	ND	ug/kg	2.00	EPA 8260	
1,2,3-Trichloropropane	ND	ug/kg	5.00	EPA 8260	
1,2-Dibromo-3-chloropropane	ND	ug/kg	5.00	EPA 8260	
1,2-Dibromoethane (EDB)	ND	ug/kg	2.00	EPA 8260	
1,2-Dichlorobenzene	ND	ug/kg	2.00	EPA 8260	
1,2-Dichloroethane	ND	ug/kg	2.00	EPA 8260	
1,2-Dichloropropane	ND	ug/kg	2.00	EPA 8260	
1,3-Dichlorobenzene	ND	ug/kg	2.00	EPA 8260	
1,4-Dichlorobenzene	ND	ug/kg	2.00	EPA 8260	
Acetone	ND	ug/kg	10.0	EPA 8260	
Benzene	ND	ug/kg	2.00	EPA 8260	
Bromochloromethane	ND	ug/kg	2.00	EPA 8260	
Bromodichloromethane	ND	ug/kg	2.00	EPA 8260	
Bromoform	ND	ug/kg	2.00	EPA 8260	

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Columbus, OH 43240

Date Reported: 5/21/09

Project: 082-369
P.O. Number: [none]
Project Manager: Ron Wells

ANALYTICAL RESULTS

Client Sample I.D.: CS-1 (2')
AALI Sample I.D.: 0905084-01 (Soil)

Date Received: 5/20/09
Date Collected: 5/20/09

Analyte	Result	Units	Reporting Limit	Method	Notes
Bromomethane	ND	ug/kg	5.00	EPA 8260	
Chloroethane	ND	ug/kg	2.00	EPA 8260	
Chloroform	ND	ug/kg	2.00	EPA 8260	
Chloromethane	ND	ug/kg	2.00	EPA 8260	
Ethylbenzene	ND	ug/kg	2.00	EPA 8260	
Methyl ethyl ketone	ND	ug/kg	10.0	EPA 8260	
Methylene chloride	ND	ug/kg	10.0	EPA 8260	
Naphthalene	ND	ug/kg	5.00	EPA 8260	
Styrene	ND	ug/kg	2.00	EPA 8260	
tert-Butylbenzene	ND	ug/kg	2.00	EPA 8260	
Tetrachloroethene	ND	ug/kg	2.00	EPA 8260	
Toluene	ND	ug/kg	2.00	EPA 8260	
trans-1,3-Dichloropropene	ND	ug/kg	2.00	EPA 8260	
trans-1,4-Dichloro-2-butene	ND	ug/kg	5.00	EPA 8260	
Trichloroethene	ND	ug/kg	2.00	EPA 8260	
Trichlorofluoromethane	ND	ug/kg	2.00	EPA 8260	
Xylenes (total)	ND	ug/kg	4.00	EPA 8260	
2-Hexanone	ND	ug/kg	5.00	EPA 8260	
2-Chloroethylvinyl ether	ND	ug/kg	10.0	EPA 8260	
Carbon disulfide	ND	ug/kg	2.00	EPA 8260	
Carbon tetrachloride	ND	ug/kg	2.00	EPA 8260	
Chlorobenzene	ND	ug/kg	2.00	EPA 8260	
cis-1,2-Dichloroethene	ND	ug/kg	2.00	EPA 8260	
cis-1,3-Dichloropropene	ND	ug/kg	2.00	EPA 8260	
Dibromochloromethane	ND	ug/kg	2.00	EPA 8260	

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Date Reported: 5/21/09

Project: 082-369
P.O. Number: [none]
Project Manager: Ron Wells

ANALYTICAL RESULTS

Client Sample I.D.: CS-1 (2')
AALI Sample I.D.: 0905084-01 (Soil)

Date Received: 5/20/09
Date Collected: 5/20/09

Analyte	Result	Units	Reporting Limit	Method	Notes
Dibromomethane	ND	ug/kg	2.00	EPA 8260	
Vinyl acetate	ND	ug/kg	10.0	EPA 8260	
Vinyl chloride	ND	ug/kg	2.00	EPA 8260	
2-Chlorotoluene	ND	ug/kg	2.00	EPA 8260	
4-Chlorotoluene	ND	ug/kg	2.00	EPA 8260	
4-Methyl-2-pentanone	ND	ug/kg	5.00	EPA 8260	
Acrolein	ND	ug/kg	100	EPA 8260	
Acrylonitrile	ND	ug/kg	10.0	EPA 8260	
Dichlorodifluoromethane	ND	ug/kg	2.00	EPA 8260	
Iodomethane	ND	ug/kg	5.00	EPA 8260	
Isopropyl alcohol	ND	ug/kg	5.00	EPA 8260	
Methyl tert-butyl ether	ND	ug/kg	5.00	EPA 8260	
n-Butylbenzene	ND	ug/kg	2.00	EPA 8260	
trans-1,2-Dichloroethene	ND	ug/kg	5.00	EPA 8260	
1,1-Dichloropropene	ND	ug/kg	5.00	EPA 8260	
n-Propylbenzene	ND	ug/kg	2.00	EPA 8260	
1,3-Dichloropropane	ND	ug/kg	2.00	EPA 8260	
Isopropylbenzene	ND	ug/kg	2.00	EPA 8260	
Bromobenzene	ND	ug/kg	2.00	EPA 8260	
sec-Butylbenzene	ND	ug/kg	2.00	EPA 8260	
1,2,3-Trichlorobenzene	ND	ug/kg	5.00	EPA 8260	
1,2,4-Trimethylbenzene	ND	ug/kg	2.00	EPA 8260	
1,3,5-Trimethylbenzene	ND	ug/kg	2.00	EPA 8260	
p-Isopropyltoluene	ND	ug/kg	2.00	EPA 8260	

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Civil & Environmental Consultants, Inc.
8740 Orion Place, Suite 100
Columbus, OH 43240

Date Reported: 5/21/09

Project: 082-369
P.O. Number: [none]
Project Manager: Ron Wells

ANALYTICAL RESULTS

Client Sample I.D.: CS-2 (2')
AALI Sample I.D.: 0905084-02 (Soil)

Date Received: 5/20/09
Date Collected: 5/20/09

Analyte	Result	Units	Reporting Limit	Method	Notes
8260 VOC by GCMS	**Date Analyzed:** 5/20/09				
Surrogate: 1,2-Dichloroethane-d4	*106 %*		*80-120*		
Surrogate: Toluene-d8	*95.4 %*		*80-120*		
Surrogate: 4-Bromofluorobenzene	*97.1 %*		*80-120*		
1,1,1,2-Tetrachloroethane	ND	ug/kg	2.00	EPA 8260	
1,1,1-Trichloroethane	ND	ug/kg	2.00	EPA 8260	
1,1,2,2-Tetrachloroethane	ND	ug/kg	2.00	EPA 8260	
1,1,2-Trichloroethane	ND	ug/kg	2.00	EPA 8260	
1,1-Dichloroethane	ND	ug/kg	2.00	EPA 8260	
1,1-Dichloroethene	ND	ug/kg	2.00	EPA 8260	
1,2,3-Trichloropropane	ND	ug/kg	5.00	EPA 8260	
1,2-Dibromo-3-chloropropane	ND	ug/kg	5.00	EPA 8260	
1,2-Dibromoethane (EDB)	ND	ug/kg	2.00	EPA 8260	
1,2-Dichlorobenzene	ND	ug/kg	2.00	EPA 8260	
1,2-Dichloroethane	ND	ug/kg	2.00	EPA 8260	
1,2-Dichloropropane	ND	ug/kg	2.00	EPA 8260	
1,3-Dichlorobenzene	ND	ug/kg	2.00	EPA 8260	
1,4-Dichlorobenzene	ND	ug/kg	2.00	EPA 8260	
Acetone	ND	ug/kg	10.0	EPA 8260	
Benzene	ND	ug/kg	2.00	EPA 8260	
Bromochloromethane	ND	ug/kg	2.00	EPA 8260	
Bromodichloromethane	ND	ug/kg	2.00	EPA 8260	
Bromoform	ND	ug/kg	2.00	EPA 8260	

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Columbus, OH 43240

Date Reported: 5/21/09

Project: 082-369
P.O. Number: [none]
Project Manager: Ron Wells

ANALYTICAL RESULTS

Client Sample I.D.: CS-2 (2')
AALI Sample I.D.: 0905084-02 (Soil)

Date Received: 5/20/09
Date Collected: 5/20/09

Analyte	Result	Units	Reporting Limit	Method	Notes
Bromomethane	ND	ug/kg	5.00	EPA 8260	
Chloroethane	ND	ug/kg	2.00	EPA 8260	
Chloroform	ND	ug/kg	2.00	EPA 8260	
Chloromethane	ND	ug/kg	2.00	EPA 8260	
Ethylbenzene	ND	ug/kg	2.00	EPA 8260	
Methyl ethyl ketone	ND	ug/kg	10.0	EPA 8260	
Methylene chloride	ND	ug/kg	10.0	EPA 8260	
Naphthalene	ND	ug/kg	5.00	EPA 8260	
Styrene	ND	ug/kg	2.00	EPA 8260	
tert-Butylbenzene	ND	ug/kg	2.00	EPA 8260	
Tetrachloroethene	ND	ug/kg	2.00	EPA 8260	
Toluene	ND	ug/kg	2.00	EPA 8260	
trans-1,3-Dichloropropene	ND	ug/kg	2.00	EPA 8260	
trans-1,4-Dichloro-2-butene	ND	ug/kg	5.00	EPA 8260	
Trichloroethene	ND	ug/kg	2.00	EPA 8260	
Trichlorofluoromethane	ND	ug/kg	2.00	EPA 8260	
Xylenes (total)	ND	ug/kg	4.00	EPA 8260	
2-Hexanone	ND	ug/kg	5.00	EPA 8260	
2-Chloroethylvinyl ether	ND	ug/kg	10.0	EPA 8260	
Carbon disulfide	ND	ug/kg	2.00	EPA 8260	
Carbon tetrachloride	ND	ug/kg	2.00	EPA 8260	
Chlorobenzene	ND	ug/kg	2.00	EPA 8260	
cis-1,2-Dichloroethene	ND	ug/kg	2.00	EPA 8260	
cis-1,3-Dichloropropene	ND	ug/kg	2.00	EPA 8260	
Dibromochloromethane	ND	ug/kg	2.00	EPA 8260	

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Date Reported: 5/21/09

Project: 082-369
P.O. Number: [none]
Project Manager: Ron Wells

ANALYTICAL RESULTS

Client Sample I.D.: CS-2 (2')
AALI Sample I.D.: 0905084-02 (Soil)

Date Received: 5/20/09
Date Collected: 5/20/09

Analyte	Result	Units	Reporting Limit	Method	Notes
Dibromomethane	ND	ug/kg	2.00	EPA 8260	
Vinyl acetate	ND	ug/kg	10.0	EPA 8260	
Vinyl chloride	ND	ug/kg	2.00	EPA 8260	
2-Chlorotoluene	ND	ug/kg	2.00	EPA 8260	
4-Chlorotoluene	ND	ug/kg	2.00	EPA 8260	
4-Methyl-2-pentanone	ND	ug/kg	5.00	EPA 8260	
Acrolein	ND	ug/kg	100	EPA 8260	
Acrylonitrile	ND	ug/kg	10.0	EPA 8260	
Dichlorodifluoromethane	ND	ug/kg	2.00	EPA 8260	
Iodomethane	ND	ug/kg	5.00	EPA 8260	
Isopropyl alcohol	ND	ug/kg	5.00	EPA 8260	
Methyl tert-butyl ether	ND	ug/kg	5.00	EPA 8260	
n-Butylbenzene	ND	ug/kg	2.00	EPA 8260	
trans-1,2-Dichloroethene	ND	ug/kg	5.00	EPA 8260	
1,1-Dichloropropene	ND	ug/kg	5.00	EPA 8260	
n-Propylbenzene	ND	ug/kg	2.00	EPA 8260	
1,3-Dichloropropane	ND	ug/kg	2.00	EPA 8260	
Isopropylbenzene	ND	ug/kg	2.00	EPA 8260	
Bromobenzene	ND	ug/kg	2.00	EPA 8260	
sec-Butylbenzene	ND	ug/kg	2.00	EPA 8260	
1,2,3-Trichlorobenzene	ND	ug/kg	5.00	EPA 8260	
1,2,4-Trimethylbenzene	ND	ug/kg	2.00	EPA 8260	
1,3,5-Trimethylbenzene	ND	ug/kg	2.00	EPA 8260	
p-Isopropyltoluene	ND	ug/kg	2.00	EPA 8260	

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Civil & Environmental Consultants, Inc.
8740 Orion Place, Suite 100
Columbus, OH 43240

Date Reported: 5/21/09

Project: 082-369
P.O. Number: [none]
Project Manager: Ron Wells

ANALYTICAL RESULTS

Client Sample I.D.: CS-3 (2')
AALI Sample I.D.: 0905084-03 (Soil)

Date Received: 5/20/09
Date Collected: 5/20/09

Analyte	Result	Units	Reporting Limit	Method	Notes
8260 VOC by GCMS	**Date Analyzed:** 5/20/09				
Surrogate: 1,2-Dichloroethane-d4	*111 %*		*80-120*		
Surrogate: Toluene-d8	*96.7 %*		*80-120*		
Surrogate: 4-Bromofluorobenzene	*99.6 %*		*80-120*		
1,1,1,2-Tetrachloroethane	ND	ug/kg	2.00	EPA 8260	
1,1,1-Trichloroethane	ND	ug/kg	2.00	EPA 8260	
1,1,2,2-Tetrachloroethane	ND	ug/kg	2.00	EPA 8260	
1,1,2-Trichloroethane	ND	ug/kg	2.00	EPA 8260	
1,1-Dichloroethane	ND	ug/kg	2.00	EPA 8260	
1,1-Dichloroethene	ND	ug/kg	2.00	EPA 8260	
1,2,3-Trichloropropane	ND	ug/kg	5.00	EPA 8260	
1,2-Dibromo-3-chloropropane	ND	ug/kg	5.00	EPA 8260	
1,2-Dibromoethane (EDB)	ND	ug/kg	2.00	EPA 8260	
1,2-Dichlorobenzene	ND	ug/kg	2.00	EPA 8260	
1,2-Dichloroethane	ND	ug/kg	2.00	EPA 8260	
1,2-Dichloropropane	ND	ug/kg	2.00	EPA 8260	
1,3-Dichlorobenzene	ND	ug/kg	2.00	EPA 8260	
1,4-Dichlorobenzene	ND	ug/kg	2.00	EPA 8260	
Acetone	ND	ug/kg	10.0	EPA 8260	
Benzene	ND	ug/kg	2.00	EPA 8260	
Bromochloromethane	ND	ug/kg	2.00	EPA 8260	
Bromodichloromethane	ND	ug/kg	2.00	EPA 8260	
Bromoform	ND	ug/kg	2.00	EPA 8260	

ADVANCED ANALYTICS LABORATORIES, INC.
1025 CONCORD AVENUE
COLUMBUS, OHIO 43212
(614) 299-9922 FAX (614) 299-4002
Analysis & Testing - Quality Control Programs - Research & Development

Civil & Environmental Consultants, Inc.
8740 Orion Place, Suite 100
Columbus, OH 43240

Date Reported: 5/21/09

Project: 082-369
P.O. Number: [none]
Project Manager: Ron Wells

ANALYTICAL RESULTS

Client Sample I.D.: CS-3 (2')
AALI Sample I.D.: 0905084-03 (Soil)

Date Received: 5/20/09
Date Collected: 5/20/09

Analyte	Result	Units	Reporting Limit	Method	Notes
Bromomethane	ND	ug/kg	5.00	EPA 8260	
Chloroethane	ND	ug/kg	2.00	EPA 8260	
Chloroform	ND	ug/kg	2.00	EPA 8260	
Chloromethane	ND	ug/kg	2.00	EPA 8260	
Ethylbenzene	ND	ug/kg	2.00	EPA 8260	
Methyl ethyl ketone	ND	ug/kg	10.0	EPA 8260	
Methylene chloride	ND	ug/kg	10.0	EPA 8260	
Naphthalene	ND	ug/kg	5.00	EPA 8260	
Styrene	ND	ug/kg	2.00	EPA 8260	
tert-Butylbenzene	ND	ug/kg	2.00	EPA 8260	
Tetrachloroethene	**5.87**	ug/kg	2.00	EPA 8260	
Toluene	ND	ug/kg	2.00	EPA 8260	
trans-1,3-Dichloropropene	ND	ug/kg	2.00	EPA 8260	
trans-1,4-Dichloro-2-butene	ND	ug/kg	5.00	EPA 8260	
Trichloroethene	ND	ug/kg	2.00	EPA 8260	
Trichlorofluoromethane	ND	ug/kg	2.00	EPA 8260	
Xylenes (total)	ND	ug/kg	4.00	EPA 8260	
2-Hexanone	ND	ug/kg	5.00	EPA 8260	
2-Chloroethylvinyl ether	ND	ug/kg	10.0	EPA 8260	
Carbon disulfide	ND	ug/kg	2.00	EPA 8260	
Carbon tetrachloride	ND	ug/kg	2.00	EPA 8260	
Chlorobenzene	ND	ug/kg	2.00	EPA 8260	
cis-1,2-Dichloroethene	ND	ug/kg	2.00	EPA 8260	
cis-1,3-Dichloropropene	ND	ug/kg	2.00	EPA 8260	
Dibromochloromethane	ND	ug/kg	2.00	EPA 8260	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

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Date Reported: 5/21/09

Project: 082-369
P.O. Number: [none]
Project Manager: Ron Wells

ANALYTICAL RESULTS

Client Sample I.D.: CS-3 (2')
AALI Sample I.D.: 0905084-03 (Soil)

Date Received: 5/20/09
Date Collected: 5/20/09

Analyte	Result	Units	Reporting Limit	Method	Notes
Dibromomethane	ND	ug/kg	2.00	EPA 8260	
Vinyl acetate	ND	ug/kg	10.0	EPA 8260	
Vinyl chloride	ND	ug/kg	2.00	EPA 8260	
2-Chlorotoluene	ND	ug/kg	2.00	EPA 8260	
4-Chlorotoluene	ND	ug/kg	2.00	EPA 8260	
4-Methyl-2-pentanone	ND	ug/kg	5.00	EPA 8260	
Acrolein	ND	ug/kg	100	EPA 8260	
Acrylonitrile	ND	ug/kg	10.0	EPA 8260	
Dichlorodifluoromethane	ND	ug/kg	2.00	EPA 8260	
Iodomethane	ND	ug/kg	5.00	EPA 8260	
Isopropyl alcohol	ND	ug/kg	5.00	EPA 8260	
Methyl tert-butyl ether	ND	ug/kg	5.00	EPA 8260	
n-Butylbenzene	ND	ug/kg	2.00	EPA 8260	
trans-1,2-Dichloroethene	ND	ug/kg	5.00	EPA 8260	
1,1-Dichloropropene	ND	ug/kg	5.00	EPA 8260	
n-Propylbenzene	ND	ug/kg	2.00	EPA 8260	
1,3-Dichloropropane	ND	ug/kg	2.00	EPA 8260	
Isopropylbenzene	ND	ug/kg	2.00	EPA 8260	
Bromobenzene	ND	ug/kg	2.00	EPA 8260	
sec-Butylbenzene	ND	ug/kg	2.00	EPA 8260	
1,2,3-Trichlorobenzene	ND	ug/kg	5.00	EPA 8260	
1,2,4-Trimethylbenzene	ND	ug/kg	2.00	EPA 8260	
1,3,5-Trimethylbenzene	ND	ug/kg	2.00	EPA 8260	
p-Isopropyltoluene	ND	ug/kg	2.00	EPA 8260	

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8740 Orion Place, Suite 100
Columbus, OH 43240

Date Reported: 5/21/09

Project: 082-369
P.O. Number: [none]
Project Manager: Ron Wells

ANALYTICAL RESULTS

Client Sample I.D.: CS-4 (3')
AALI Sample I.D.: 0905084-04 (Soil)

Date Received: 5/20/09
Date Collected: 5/20/09

Analyte	Result	Units	Reporting Limit	Method	Notes
8260 VOC by GCMS	**Date Analyzed:** 5/20/09				
Surrogate: 1,2-Dichloroethane-d4	*114 %*		*80-120*		
Surrogate: Toluene-d8	*94.1 %*		*80-120*		
Surrogate: 4-Bromofluorobenzene	*99.2 %*		*80-120*		
1,1,1,2-Tetrachloroethane	ND	ug/kg	2.00	EPA 8260	
1,1,1-Trichloroethane	ND	ug/kg	2.00	EPA 8260	
1,1,2,2-Tetrachloroethane	ND	ug/kg	2.00	EPA 8260	
1,1,2-Trichloroethane	ND	ug/kg	2.00	EPA 8260	
1,1-Dichloroethane	ND	ug/kg	2.00	EPA 8260	
1,1-Dichloroethene	ND	ug/kg	2.00	EPA 8260	
1,2,3-Trichloropropane	ND	ug/kg	5.00	EPA 8260	
1,2-Dibromo-3-chloropropane	ND	ug/kg	5.00	EPA 8260	
1,2-Dibromoethane (EDB)	ND	ug/kg	2.00	EPA 8260	
1,2-Dichlorobenzene	ND	ug/kg	2.00	EPA 8260	
1,2-Dichloroethane	ND	ug/kg	2.00	EPA 8260	
1,2-Dichloropropane	ND	ug/kg	2.00	EPA 8260	
1,3-Dichlorobenzene	ND	ug/kg	2.00	EPA 8260	
1,4-Dichlorobenzene	ND	ug/kg	2.00	EPA 8260	
Acetone	ND	ug/kg	10.0	EPA 8260	
Benzene	ND	ug/kg	2.00	EPA 8260	
Bromochloromethane	ND	ug/kg	2.00	EPA 8260	
Bromodichloromethane	ND	ug/kg	2.00	EPA 8260	
Bromoform	ND	ug/kg	2.00	EPA 8260	

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Date Reported: 5/21/09

Project: 082-369
P.O. Number: [none]
Project Manager: Ron Wells

ANALYTICAL RESULTS

Client Sample I.D.: CS-4 (3')
AALI Sample I.D.: 0905084-04 (Soil)

Date Received: 5/20/09
Date Collected: 5/20/09

Analyte	Result	Units	Reporting Limit	Method	Notes
Bromomethane	ND	ug/kg	5.00	EPA 8260	
Chloroethane	ND	ug/kg	2.00	EPA 8260	
Chloroform	ND	ug/kg	2.00	EPA 8260	
Chloromethane	ND	ug/kg	2.00	EPA 8260	
Ethylbenzene	ND	ug/kg	2.00	EPA 8260	
Methyl ethyl ketone	ND	ug/kg	10.0	EPA 8260	
Methylene chloride	ND	ug/kg	10.0	EPA 8260	
Naphthalene	ND	ug/kg	5.00	EPA 8260	
Styrene	ND	ug/kg	2.00	EPA 8260	
tert-Butylbenzene	ND	ug/kg	2.00	EPA 8260	
Tetrachloroethene	ND	ug/kg	2.00	EPA 8260	
Toluene	ND	ug/kg	2.00	EPA 8260	
trans-1,3-Dichloropropene	ND	ug/kg	2.00	EPA 8260	
trans-1,4-Dichloro-2-butene	ND	ug/kg	5.00	EPA 8260	
Trichloroethene	ND	ug/kg	2.00	EPA 8260	
Trichlorofluoromethane	ND	ug/kg	2.00	EPA 8260	
Xylenes (total)	ND	ug/kg	4.00	EPA 8260	
2-Hexanone	ND	ug/kg	5.00	EPA 8260	
2-Chloroethylvinyl ether	ND	ug/kg	10.0	EPA 8260	
Carbon disulfide	ND	ug/kg	2.00	EPA 8260	
Carbon tetrachloride	ND	ug/kg	2.00	EPA 8260	
Chlorobenzene	ND	ug/kg	2.00	EPA 8260	
cis-1,2-Dichloroethene	ND	ug/kg	2.00	EPA 8260	
cis-1,3-Dichloropropene	ND	ug/kg	2.00	EPA 8260	
Dibromochloromethane	ND	ug/kg	2.00	EPA 8260	

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Date Reported: 5/21/09

Project: 082-369
P.O. Number: [none]
Project Manager: Ron Wells

ANALYTICAL RESULTS

Client Sample I.D.: CS-4 (3')
AALI Sample I.D.: 0905084-04 (Soil)

Date Received: 5/20/09
Date Collected: 5/20/09

Analyte	Result	Units	Reporting Limit	Method	Notes
Dibromomethane	ND	ug/kg	2.00	EPA 8260	
Vinyl acetate	ND	ug/kg	10.0	EPA 8260	
Vinyl chloride	ND	ug/kg	2.00	EPA 8260	
2-Chlorotoluene	ND	ug/kg	2.00	EPA 8260	
4-Chlorotoluene	ND	ug/kg	2.00	EPA 8260	
4-Methyl-2-pentanone	ND	ug/kg	5.00	EPA 8260	
Acrolein	ND	ug/kg	100	EPA 8260	
Acrylonitrile	ND	ug/kg	10.0	EPA 8260	
Dichlorodifluoromethane	ND	ug/kg	2.00	EPA 8260	
Iodomethane	ND	ug/kg	5.00	EPA 8260	
Isopropyl alcohol	ND	ug/kg	5.00	EPA 8260	
Methyl tert-butyl ether	ND	ug/kg	5.00	EPA 8260	
n-Butylbenzene	ND	ug/kg	2.00	EPA 8260	
trans-1,2-Dichloroethene	ND	ug/kg	5.00	EPA 8260	
1,1-Dichloropropene	ND	ug/kg	5.00	EPA 8260	
n-Propylbenzene	ND	ug/kg	2.00	EPA 8260	
1,3-Dichloropropane	ND	ug/kg	2.00	EPA 8260	
Isopropylbenzene	ND	ug/kg	2.00	EPA 8260	
Bromobenzene	ND	ug/kg	2.00	EPA 8260	
sec-Butylbenzene	ND	ug/kg	2.00	EPA 8260	
1,2,3-Trichlorobenzene	ND	ug/kg	5.00	EPA 8260	
1,2,4-Trimethylbenzene	ND	ug/kg	2.00	EPA 8260	
1,3,5-Trimethylbenzene	ND	ug/kg	2.00	EPA 8260	
p-Isopropyltoluene	ND	ug/kg	2.00	EPA 8260	

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Civil & Environmental Consultants, Inc.
8740 Orion Place, Suite 100
Columbus, OH 43240

Date Reported: 5/21/09

Project: 082-369
P.O. Number: [none]
Project Manager: Ron Wells

ANALYTICAL RESULTS

Client Sample I.D.: CS-5 (4')
AALI Sample I.D.: 0905084-05 (Soil)

Date Received: 5/20/09
Date Collected: 5/20/09

Analyte	Result	Units	Reporting Limit	Method	Notes
8260 VOC by GCMS	**Date Analyzed:** 5/20/09				
Surrogate: 1,2-Dichloroethane-d4	*113 %*		*80-120*		
Surrogate: Toluene-d8	*97.6 %*		*80-120*		
Surrogate: 4-Bromofluorobenzene	*92.9 %*		*80-120*		
1,1,1,2-Tetrachloroethane	ND	ug/kg	2.00	EPA 8260	
1,1,1-Trichloroethane	ND	ug/kg	2.00	EPA 8260	
1,1,2,2-Tetrachloroethane	ND	ug/kg	2.00	EPA 8260	
1,1,2-Trichloroethane	ND	ug/kg	2.00	EPA 8260	
1,1-Dichloroethane	ND	ug/kg	2.00	EPA 8260	
1,1-Dichloroethene	ND	ug/kg	2.00	EPA 8260	
1,2,3-Trichloropropane	ND	ug/kg	5.00	EPA 8260	
1,2-Dibromo-3-chloropropane	ND	ug/kg	5.00	EPA 8260	
1,2-Dibromoethane (EDB)	ND	ug/kg	2.00	EPA 8260	
1,2-Dichlorobenzene	ND	ug/kg	2.00	EPA 8260	
1,2-Dichloroethane	ND	ug/kg	2.00	EPA 8260	
1,2-Dichloropropane	ND	ug/kg	2.00	EPA 8260	
1,3-Dichlorobenzene	ND	ug/kg	2.00	EPA 8260	
1,4-Dichlorobenzene	ND	ug/kg	2.00	EPA 8260	
Acetone	ND	ug/kg	10.0	EPA 8260	
Benzene	ND	ug/kg	2.00	EPA 8260	
Bromochloromethane	ND	ug/kg	2.00	EPA 8260	
Bromodichloromethane	ND	ug/kg	2.00	EPA 8260	
Bromoform	ND	ug/kg	2.00	EPA 8260	

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Date Reported: 5/21/09

Project: 082-369
P.O. Number: [none]
Project Manager: Ron Wells

ANALYTICAL RESULTS

Client Sample I.D.: CS-5 (4')
AALI Sample I.D.: 0905084-05 (Soil)

Date Received: 5/20/09
Date Collected: 5/20/09

Analyte	Result	Units	Reporting Limit	Method	Notes
Bromomethane	ND	ug/kg	5.00	EPA 8260	
Chloroethane	ND	ug/kg	2.00	EPA 8260	
Chloroform	ND	ug/kg	2.00	EPA 8260	
Chloromethane	ND	ug/kg	2.00	EPA 8260	
Ethylbenzene	ND	ug/kg	2.00	EPA 8260	
Methyl ethyl ketone	ND	ug/kg	10.0	EPA 8260	
Methylene chloride	ND	ug/kg	10.0	EPA 8260	
Naphthalene	ND	ug/kg	5.00	EPA 8260	
Styrene	ND	ug/kg	2.00	EPA 8260	
tert-Butylbenzene	ND	ug/kg	2.00	EPA 8260	
Tetrachloroethene	**8.91**	ug/kg	2.00	EPA 8260	
Toluene	ND	ug/kg	2.00	EPA 8260	
trans-1,3-Dichloropropene	ND	ug/kg	2.00	EPA 8260	
trans-1,4-Dichloro-2-butene	ND	ug/kg	5.00	EPA 8260	
Trichloroethene	ND	ug/kg	2.00	EPA 8260	
Trichlorofluoromethane	ND	ug/kg	2.00	EPA 8260	
Xylenes (total)	ND	ug/kg	4.00	EPA 8260	
2-Hexanone	ND	ug/kg	5.00	EPA 8260	
2-Chloroethylvinyl ether	ND	ug/kg	10.0	EPA 8260	
Carbon disulfide	ND	ug/kg	2.00	EPA 8260	
Carbon tetrachloride	ND	ug/kg	2.00	EPA 8260	
Chlorobenzene	ND	ug/kg	2.00	EPA 8260	
cis-1,2-Dichloroethene	ND	ug/kg	2.00	EPA 8260	
cis-1,3-Dichloropropene	ND	ug/kg	2.00	EPA 8260	
Dibromochloromethane	ND	ug/kg	2.00	EPA 8260	

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Date Reported: 5/21/09

Project: 082-369
P.O. Number: [none]
Project Manager: Ron Wells

ANALYTICAL RESULTS

Client Sample I.D.: CS-5 (4')
AALI Sample I.D.: 0905084-05 (Soil)

Date Received: 5/20/09
Date Collected: 5/20/09

Analyte	Result	Units	Reporting Limit	Method	Notes
Dibromomethane	ND	ug/kg	2.00	EPA 8260	
Vinyl acetate	ND	ug/kg	10.0	EPA 8260	
Vinyl chloride	ND	ug/kg	2.00	EPA 8260	
2-Chlorotoluene	ND	ug/kg	2.00	EPA 8260	
4-Chlorotoluene	ND	ug/kg	2.00	EPA 8260	
4-Methyl-2-pentanone	ND	ug/kg	5.00	EPA 8260	
Acrolein	ND	ug/kg	100	EPA 8260	
Acrylonitrile	ND	ug/kg	10.0	EPA 8260	
Dichlorodifluoromethane	ND	ug/kg	2.00	EPA 8260	
Iodomethane	ND	ug/kg	5.00	EPA 8260	
Isopropyl alcohol	ND	ug/kg	5.00	EPA 8260	
Methyl tert-butyl ether	ND	ug/kg	5.00	EPA 8260	
n-Butylbenzene	ND	ug/kg	2.00	EPA 8260	
trans-1,2-Dichloroethene	ND	ug/kg	5.00	EPA 8260	
1,1-Dichloropropene	ND	ug/kg	5.00	EPA 8260	
n-Propylbenzene	ND	ug/kg	2.00	EPA 8260	
1,3-Dichloropropane	ND	ug/kg	2.00	EPA 8260	
Isopropylbenzene	ND	ug/kg	2.00	EPA 8260	
Bromobenzene	ND	ug/kg	2.00	EPA 8260	
sec-Butylbenzene	ND	ug/kg	2.00	EPA 8260	
1,2,3-Trichlorobenzene	ND	ug/kg	5.00	EPA 8260	
1,2,4-Trimethylbenzene	ND	ug/kg	2.00	EPA 8260	
1,3,5-Trimethylbenzene	ND	ug/kg	2.00	EPA 8260	
p-Isopropyltoluene	ND	ug/kg	2.00	EPA 8260	

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8740 Orion Place, Suite 100
Columbus, OH 43240

Date Reported: 5/21/09

Project: 082-369
P.O. Number: [none]
Project Manager: Ron Wells

ANALYTICAL RESULTS

Client Sample I.D.: CS-6 (5')
AALI Sample I.D.: 0905084-06 (Soil)

Date Received: 5/20/09
Date Collected: 5/20/09

Analyte	Result	Units	Reporting Limit	Method	Notes
8260 VOC by GCMS	**Date Analyzed:** 5/20/09				
Surrogate: 1,2-Dichloroethane-d4	*101 %*		*80-120*		
Surrogate: Toluene-d8	*99.0 %*		*80-120*		
Surrogate: 4-Bromofluorobenzene	*96.9 %*		*80-120*		
1,1,1,2-Tetrachloroethane	ND	ug/kg	2.00	EPA 8260	
1,1,1-Trichloroethane	ND	ug/kg	2.00	EPA 8260	
1,1,2,2-Tetrachloroethane	ND	ug/kg	2.00	EPA 8260	
1,1,2-Trichloroethane	ND	ug/kg	2.00	EPA 8260	
1,1-Dichloroethane	ND	ug/kg	2.00	EPA 8260	
1,1-Dichloroethene	ND	ug/kg	2.00	EPA 8260	
1,2,3-Trichloropropane	ND	ug/kg	5.00	EPA 8260	
1,2-Dibromo-3-chloropropane	ND	ug/kg	5.00	EPA 8260	
1,2-Dibromoethane (EDB)	ND	ug/kg	2.00	EPA 8260	
1,2-Dichlorobenzene	ND	ug/kg	2.00	EPA 8260	
1,2-Dichloroethane	ND	ug/kg	2.00	EPA 8260	
1,2-Dichloropropane	ND	ug/kg	2.00	EPA 8260	
1,3-Dichlorobenzene	ND	ug/kg	2.00	EPA 8260	
1,4-Dichlorobenzene	ND	ug/kg	2.00	EPA 8260	
Acetone	ND	ug/kg	10.0	EPA 8260	
Benzene	ND	ug/kg	2.00	EPA 8260	
Bromochloromethane	ND	ug/kg	2.00	EPA 8260	
Bromodichloromethane	ND	ug/kg	2.00	EPA 8260	
Bromoform	ND	ug/kg	2.00	EPA 8260	

L. Eve Karnitis, President

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Civil & Environmental Consultants, Inc.
8740 Orion Place, Suite 100
Columbus, OH 43240

Date Reported: 5/21/09

Project: 082-369
P.O. Number: [none]
Project Manager: Ron Wells

ANALYTICAL RESULTS

Client Sample I.D.: CS-6 (5')
AALI Sample I.D.: 0905084-06 (Soil)

Date Received: 5/20/09
Date Collected: 5/20/09

Analyte	Result	Units	Reporting Limit	Method	Notes
Bromomethane	ND	ug/kg	5.00	EPA 8260	
Chloroethane	ND	ug/kg	2.00	EPA 8260	
Chloroform	ND	ug/kg	2.00	EPA 8260	
Chloromethane	ND	ug/kg	2.00	EPA 8260	
Ethylbenzene	ND	ug/kg	2.00	EPA 8260	
Methyl ethyl ketone	ND	ug/kg	10.0	EPA 8260	
Methylene chloride	ND	ug/kg	10.0	EPA 8260	
Naphthalene	ND	ug/kg	5.00	EPA 8260	
Styrene	ND	ug/kg	2.00	EPA 8260	
tert-Butylbenzene	ND	ug/kg	2.00	EPA 8260	
Tetrachloroethene	**12.1**	ug/kg	2.00	EPA 8260	
Toluene	ND	ug/kg	2.00	EPA 8260	
trans-1,3-Dichloropropene	ND	ug/kg	2.00	EPA 8260	
trans-1,4-Dichloro-2-butene	ND	ug/kg	5.00	EPA 8260	
Trichloroethene	ND	ug/kg	2.00	EPA 8260	
Trichlorofluoromethane	ND	ug/kg	2.00	EPA 8260	
Xylenes (total)	ND	ug/kg	4.00	EPA 8260	
2-Hexanone	ND	ug/kg	5.00	EPA 8260	
2-Chloroethylvinyl ether	ND	ug/kg	10.0	EPA 8260	
Carbon disulfide	ND	ug/kg	2.00	EPA 8260	
Carbon tetrachloride	ND	ug/kg	2.00	EPA 8260	
Chlorobenzene	ND	ug/kg	2.00	EPA 8260	
cis-1,2-Dichloroethene	ND	ug/kg	2.00	EPA 8260	
cis-1,3-Dichloropropene	ND	ug/kg	2.00	EPA 8260	
Dibromochloromethane	ND	ug/kg	2.00	EPA 8260	

L. Eve Karnitis, President

ADVANCED ANALYTICS LABORATORIES, INC.
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Analysis & Testing - Quality Control Programs - Research & Development

Civil & Environmental Consultants, Inc.
8740 Orion Place, Suite 100
Columbus, OH 43240

Date Reported: 5/21/09

Project: 082-369
P.O. Number: [none]
Project Manager: Ron Wells

ANALYTICAL RESULTS

Client Sample I.D.: CS-6 (5')
AALI Sample I.D.: 0905084-06 (Soil)

Date Received: 5/20/09
Date Collected: 5/20/09

Analyte	Result	Units	Reporting Limit	Method	Notes
Dibromomethane	ND	ug/kg	2.00	EPA 8260	
Vinyl acetate	ND	ug/kg	10.0	EPA 8260	
Vinyl chloride	ND	ug/kg	2.00	EPA 8260	
2-Chlorotoluene	ND	ug/kg	2.00	EPA 8260	
4-Chlorotoluene	ND	ug/kg	2.00	EPA 8260	
4-Methyl-2-pentanone	ND	ug/kg	5.00	EPA 8260	
Acrolein	ND	ug/kg	100	EPA 8260	
Acrylonitrile	ND	ug/kg	10.0	EPA 8260	
Dichlorodifluoromethane	ND	ug/kg	2.00	EPA 8260	
Iodomethane	ND	ug/kg	5.00	EPA 8260	
Isopropyl alcohol	ND	ug/kg	5.00	EPA 8260	
Methyl tert-butyl ether	ND	ug/kg	5.00	EPA 8260	
n-Butylbenzene	ND	ug/kg	2.00	EPA 8260	
trans-1,2-Dichloroethene	ND	ug/kg	5.00	EPA 8260	
1,1-Dichloropropene	ND	ug/kg	5.00	EPA 8260	
n-Propylbenzene	ND	ug/kg	2.00	EPA 8260	
1,3-Dichloropropane	ND	ug/kg	2.00	EPA 8260	
Isopropylbenzene	ND	ug/kg	2.00	EPA 8260	
Bromobenzene	ND	ug/kg	2.00	EPA 8260	
sec-Butylbenzene	ND	ug/kg	2.00	EPA 8260	
1,2,3-Trichlorobenzene	ND	ug/kg	5.00	EPA 8260	
1,2,4-Trimethylbenzene	ND	ug/kg	2.00	EPA 8260	
1,3,5-Trimethylbenzene	ND	ug/kg	2.00	EPA 8260	
p-Isopropyltoluene	ND	ug/kg	2.00	EPA 8260	

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8740 Orion Place, Suite 100
Columbus, OH 43240

Date Reported: 5/21/09

Project: 082-369
P.O. Number: [none]
Project Manager: Ron Wells

ANALYTICAL RESULTS

Client Sample I.D.: CS-7 (2')
AALI Sample I.D.: 0905084-07 (Soil)

Date Received: 5/20/09
Date Collected: 5/20/09

Analyte	Result	Units	Reporting Limit	Method	Notes
8260 VOC by GCMS	**Date Analyzed:** 5/20/09				
Surrogate: 1,2-Dichloroethane-d4	*114 %*		*80-120*		
Surrogate: Toluene-d8	*95.9 %*		*80-120*		
Surrogate: 4-Bromofluorobenzene	*98.2 %*		*80-120*		
1,1,1,2-Tetrachloroethane	ND	ug/kg	2.00	EPA 8260	
1,1,1-Trichloroethane	ND	ug/kg	2.00	EPA 8260	
1,1,2,2-Tetrachloroethane	ND	ug/kg	2.00	EPA 8260	
1,1,2-Trichloroethane	ND	ug/kg	2.00	EPA 8260	
1,1-Dichloroethane	ND	ug/kg	2.00	EPA 8260	
1,1-Dichloroethene	ND	ug/kg	2.00	EPA 8260	
1,2,3-Trichloropropane	ND	ug/kg	5.00	EPA 8260	
1,2-Dibromo-3-chloropropane	ND	ug/kg	5.00	EPA 8260	
1,2-Dibromoethane (EDB)	ND	ug/kg	2.00	EPA 8260	
1,2-Dichlorobenzene	ND	ug/kg	2.00	EPA 8260	
1,2-Dichloroethane	ND	ug/kg	2.00	EPA 8260	
1,2-Dichloropropane	ND	ug/kg	2.00	EPA 8260	
1,3-Dichlorobenzene	ND	ug/kg	2.00	EPA 8260	
1,4-Dichlorobenzene	ND	ug/kg	2.00	EPA 8260	
Acetone	ND	ug/kg	10.0	EPA 8260	
Benzene	ND	ug/kg	2.00	EPA 8260	
Bromochloromethane	ND	ug/kg	2.00	EPA 8260	
Bromodichloromethane	ND	ug/kg	2.00	EPA 8260	
Bromoform	ND	ug/kg	2.00	EPA 8260	

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8740 Orion Place, Suite 100
Columbus, OH 43240

Date Reported: 5/21/09

Project: 082-369
P.O. Number: [none]
Project Manager: Ron Wells

ANALYTICAL RESULTS

Client Sample I.D.: CS-7 (2')
AALI Sample I.D.: 0905084-07 (Soil)

Date Received: 5/20/09
Date Collected: 5/20/09

Analyte	Result	Units	Reporting Limit	Method	Notes
Bromomethane	ND	ug/kg	5.00	EPA 8260	
Chloroethane	ND	ug/kg	2.00	EPA 8260	
Chloroform	**2.13**	ug/kg	2.00	EPA 8260	
Chloromethane	ND	ug/kg	2.00	EPA 8260	
Ethylbenzene	ND	ug/kg	2.00	EPA 8260	
Methyl ethyl ketone	ND	ug/kg	10.0	EPA 8260	
Methylene chloride	ND	ug/kg	10.0	EPA 8260	
Naphthalene	ND	ug/kg	5.00	EPA 8260	
Styrene	ND	ug/kg	2.00	EPA 8260	
tert-Butylbenzene	ND	ug/kg	2.00	EPA 8260	
Tetrachloroethene	**155**	ug/kg	2.00	EPA 8260	
Toluene	ND	ug/kg	2.00	EPA 8260	
trans-1,3-Dichloropropene	ND	ug/kg	2.00	EPA 8260	
trans-1,4-Dichloro-2-butene	ND	ug/kg	5.00	EPA 8260	
Trichloroethene	ND	ug/kg	2.00	EPA 8260	
Trichlorofluoromethane	ND	ug/kg	2.00	EPA 8260	
Xylenes (total)	ND	ug/kg	4.00	EPA 8260	
2-Hexanone	ND	ug/kg	5.00	EPA 8260	
2-Chloroethylvinyl ether	ND	ug/kg	10.0	EPA 8260	
Carbon disulfide	ND	ug/kg	2.00	EPA 8260	
Carbon tetrachloride	ND	ug/kg	2.00	EPA 8260	
Chlorobenzene	ND	ug/kg	2.00	EPA 8260	
cis-1,2-Dichloroethene	ND	ug/kg	2.00	EPA 8260	
cis-1,3-Dichloropropene	ND	ug/kg	2.00	EPA 8260	
Dibromochloromethane	ND	ug/kg	2.00	EPA 8260	

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Date Reported: 5/21/09

Project: 082-369
P.O. Number: [none]
Project Manager: Ron Wells

ANALYTICAL RESULTS

Client Sample I.D.: CS-7 (2')
AALI Sample I.D.: 0905084-07 (Soil)

Date Received: 5/20/09
Date Collected: 5/20/09

Analyte	Result	Units	Reporting Limit	Method	Notes
Dibromomethane	ND	ug/kg	2.00	EPA 8260	
Vinyl acetate	ND	ug/kg	10.0	EPA 8260	
Vinyl chloride	ND	ug/kg	2.00	EPA 8260	
2-Chlorotoluene	ND	ug/kg	2.00	EPA 8260	
4-Chlorotoluene	ND	ug/kg	2.00	EPA 8260	
4-Methyl-2-pentanone	ND	ug/kg	5.00	EPA 8260	
Acrolein	ND	ug/kg	100	EPA 8260	
Acrylonitrile	ND	ug/kg	10.0	EPA 8260	
Dichlorodifluoromethane	ND	ug/kg	2.00	EPA 8260	
Iodomethane	ND	ug/kg	5.00	EPA 8260	
Isopropyl alcohol	ND	ug/kg	5.00	EPA 8260	
Methyl tert-butyl ether	ND	ug/kg	5.00	EPA 8260	
n-Butylbenzene	ND	ug/kg	2.00	EPA 8260	
trans-1,2-Dichloroethene	ND	ug/kg	5.00	EPA 8260	
1,1-Dichloropropene	ND	ug/kg	5.00	EPA 8260	
n-Propylbenzene	ND	ug/kg	2.00	EPA 8260	
1,3-Dichloropropane	ND	ug/kg	2.00	EPA 8260	
Isopropylbenzene	ND	ug/kg	2.00	EPA 8260	
Bromobenzene	ND	ug/kg	2.00	EPA 8260	
sec-Butylbenzene	ND	ug/kg	2.00	EPA 8260	
1,2,3-Trichlorobenzene	ND	ug/kg	5.00	EPA 8260	
1,2,4-Trimethylbenzene	ND	ug/kg	2.00	EPA 8260	
1,3,5-Trimethylbenzene	ND	ug/kg	2.00	EPA 8260	
p-Isopropyltoluene	ND	ug/kg	2.00	EPA 8260	

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8740 Orion Place, Suite 100
Columbus, OH 43240

Date Reported: 5/21/09

Project: 082-369
P.O. Number: [none]
Project Manager: Ron Wells

ANALYTICAL RESULTS

Client Sample I.D.: CS-8 (2')
AALI Sample I.D.: 0905084-08 (Soil)

Date Received: 5/20/09
Date Collected: 5/20/09

Analyte	Result	Units	Reporting Limit	Method	Notes
8260 VOC by GCMS	**Date Analyzed:** 5/20/09				
Surrogate: 1,2-Dichloroethane-d4	*116 %*		*80-120*		
Surrogate: Toluene-d8	*96.9 %*		*80-120*		
Surrogate: 4-Bromofluorobenzene	*98.6 %*		*80-120*		
1,1,1,2-Tetrachloroethane	ND	ug/kg	2.00	EPA 8260	
1,1,1-Trichloroethane	ND	ug/kg	2.00	EPA 8260	
1,1,2,2-Tetrachloroethane	ND	ug/kg	2.00	EPA 8260	
1,1,2-Trichloroethane	ND	ug/kg	2.00	EPA 8260	
1,1-Dichloroethane	ND	ug/kg	2.00	EPA 8260	
1,1-Dichloroethene	ND	ug/kg	2.00	EPA 8260	
1,2,3-Trichloropropane	ND	ug/kg	5.00	EPA 8260	
1,2-Dibromo-3-chloropropane	ND	ug/kg	5.00	EPA 8260	
1,2-Dibromoethane (EDB)	ND	ug/kg	2.00	EPA 8260	
1,2-Dichlorobenzene	ND	ug/kg	2.00	EPA 8260	
1,2-Dichloroethane	ND	ug/kg	2.00	EPA 8260	
1,2-Dichloropropane	ND	ug/kg	2.00	EPA 8260	
1,3-Dichlorobenzene	ND	ug/kg	2.00	EPA 8260	
1,4-Dichlorobenzene	ND	ug/kg	2.00	EPA 8260	
Acetone	ND	ug/kg	10.0	EPA 8260	
Benzene	ND	ug/kg	2.00	EPA 8260	
Bromochloromethane	ND	ug/kg	2.00	EPA 8260	
Bromodichloromethane	ND	ug/kg	2.00	EPA 8260	
Bromoform	ND	ug/kg	2.00	EPA 8260	

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Date Reported: 5/21/09

Project: 082-369
P.O. Number: [none]
Project Manager: Ron Wells

ANALYTICAL RESULTS

Client Sample I.D.: CS-8 (2')
AALI Sample I.D.: 0905084-08 (Soil)

Date Received: 5/20/09
Date Collected: 5/20/09

Analyte	Result	Units	Reporting Limit	Method	Notes
Bromomethane	ND	ug/kg	5.00	EPA 8260	
Chloroethane	ND	ug/kg	2.00	EPA 8260	
Chloroform	ND	ug/kg	2.00	EPA 8260	
Chloromethane	ND	ug/kg	2.00	EPA 8260	
Ethylbenzene	ND	ug/kg	2.00	EPA 8260	
Methyl ethyl ketone	ND	ug/kg	10.0	EPA 8260	
Methylene chloride	ND	ug/kg	10.0	EPA 8260	
Naphthalene	ND	ug/kg	5.00	EPA 8260	
Styrene	ND	ug/kg	2.00	EPA 8260	
tert-Butylbenzene	ND	ug/kg	2.00	EPA 8260	
Tetrachloroethene	ND	ug/kg	2.00	EPA 8260	
Toluene	ND	ug/kg	2.00	EPA 8260	
trans-1,3-Dichloropropene	ND	ug/kg	2.00	EPA 8260	
trans-1,4-Dichloro-2-butene	ND	ug/kg	5.00	EPA 8260	
Trichloroethene	ND	ug/kg	2.00	EPA 8260	
Trichlorofluoromethane	ND	ug/kg	2.00	EPA 8260	
Xylenes (total)	ND	ug/kg	4.00	EPA 8260	
2-Hexanone	ND	ug/kg	5.00	EPA 8260	
2-Chloroethylvinyl ether	ND	ug/kg	10.0	EPA 8260	
Carbon disulfide	ND	ug/kg	2.00	EPA 8260	
Carbon tetrachloride	ND	ug/kg	2.00	EPA 8260	
Chlorobenzene	ND	ug/kg	2.00	EPA 8260	
cis-1,2-Dichloroethene	ND	ug/kg	2.00	EPA 8260	
cis-1,3-Dichloropropene	ND	ug/kg	2.00	EPA 8260	
Dibromochloromethane	ND	ug/kg	2.00	EPA 8260	

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Date Reported: 5/21/09

Project: 082-369
P.O. Number: [none]
Project Manager: Ron Wells

ANALYTICAL RESULTS

Client Sample I.D.: CS-8 (2')
AALI Sample I.D.: 0905084-08 (Soil)

Date Received: 5/20/09
Date Collected: 5/20/09

Analyte	Result	Units	Reporting Limit	Method	Notes
Dibromomethane	ND	ug/kg	2.00	EPA 8260	
Vinyl acetate	ND	ug/kg	10.0	EPA 8260	
Vinyl chloride	ND	ug/kg	2.00	EPA 8260	
2-Chlorotoluene	ND	ug/kg	2.00	EPA 8260	
4-Chlorotoluene	ND	ug/kg	2.00	EPA 8260	
4-Methyl-2-pentanone	ND	ug/kg	5.00	EPA 8260	
Acrolein	ND	ug/kg	100	EPA 8260	
Acrylonitrile	ND	ug/kg	10.0	EPA 8260	
Dichlorodifluoromethane	ND	ug/kg	2.00	EPA 8260	
Iodomethane	ND	ug/kg	5.00	EPA 8260	
Isopropyl alcohol	ND	ug/kg	5.00	EPA 8260	
Methyl tert-butyl ether	ND	ug/kg	5.00	EPA 8260	
n-Butylbenzene	ND	ug/kg	2.00	EPA 8260	
trans-1,2-Dichloroethene	ND	ug/kg	5.00	EPA 8260	
1,1-Dichloropropene	ND	ug/kg	5.00	EPA 8260	
n-Propylbenzene	ND	ug/kg	2.00	EPA 8260	
1,3-Dichloropropane	ND	ug/kg	2.00	EPA 8260	
Isopropylbenzene	ND	ug/kg	2.00	EPA 8260	
Bromobenzene	ND	ug/kg	2.00	EPA 8260	
sec-Butylbenzene	ND	ug/kg	2.00	EPA 8260	
1,2,3-Trichlorobenzene	ND	ug/kg	5.00	EPA 8260	
1,2,4-Trimethylbenzene	ND	ug/kg	2.00	EPA 8260	
1,3,5-Trimethylbenzene	ND	ug/kg	2.00	EPA 8260	
p-Isopropyltoluene	ND	ug/kg	2.00	EPA 8260	

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Columbus, OH 43240

Date Reported: 5/21/09

Project: 082-369
P.O. Number: [none]
Project Manager: Ron Wells

ANALYTICAL RESULTS

Client Sample I.D.: CS-9 (7')
AALI Sample I.D.: 0905084-09 (Soil)

Date Received: 5/20/09
Date Collected: 5/20/09

Analyte	Result	Units	Reporting Limit	Method	Notes
8260 VOC by GCMS	**Date Analyzed:** 5/20/09				
Surrogate: 1,2-Dichloroethane-d4	*112 %*		*80-120*		
Surrogate: Toluene-d8	*100 %*		*80-120*		
Surrogate: 4-Bromofluorobenzene	*101 %*		*80-120*		
1,1,1,2-Tetrachloroethane	ND	ug/kg	2.00	EPA 8260	
1,1,1-Trichloroethane	ND	ug/kg	2.00	EPA 8260	
1,1,2,2-Tetrachloroethane	ND	ug/kg	2.00	EPA 8260	
1,1,2-Trichloroethane	ND	ug/kg	2.00	EPA 8260	
1,1-Dichloroethane	ND	ug/kg	2.00	EPA 8260	
1,1-Dichloroethene	ND	ug/kg	2.00	EPA 8260	
1,2,3-Trichloropropane	ND	ug/kg	5.00	EPA 8260	
1,2-Dibromo-3-chloropropane	ND	ug/kg	5.00	EPA 8260	
1,2-Dibromoethane (EDB)	ND	ug/kg	2.00	EPA 8260	
1,2-Dichlorobenzene	ND	ug/kg	2.00	EPA 8260	
1,2-Dichloroethane	ND	ug/kg	2.00	EPA 8260	
1,2-Dichloropropane	ND	ug/kg	2.00	EPA 8260	
1,3-Dichlorobenzene	ND	ug/kg	2.00	EPA 8260	
1,4-Dichlorobenzene	ND	ug/kg	2.00	EPA 8260	
Acetone	ND	ug/kg	10.0	EPA 8260	
Benzene	ND	ug/kg	2.00	EPA 8260	
Bromochloromethane	ND	ug/kg	2.00	EPA 8260	
Bromodichloromethane	ND	ug/kg	2.00	EPA 8260	
Bromoform	ND	ug/kg	2.00	EPA 8260	

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Date Reported: 5/21/09

Project: 082-369
P.O. Number: [none]
Project Manager: Ron Wells

ANALYTICAL RESULTS

Client Sample I.D.: CS-9 (7')
AALI Sample I.D.: 0905084-09 (Soil)

Date Received: 5/20/09
Date Collected: 5/20/09

Analyte	Result	Units	Reporting Limit	Method	Notes
Bromomethane	ND	ug/kg	5.00	EPA 8260	
Chloroethane	ND	ug/kg	2.00	EPA 8260	
Chloroform	ND	ug/kg	2.00	EPA 8260	
Chloromethane	ND	ug/kg	2.00	EPA 8260	
Ethylbenzene	ND	ug/kg	2.00	EPA 8260	
Methyl ethyl ketone	ND	ug/kg	10.0	EPA 8260	
Methylene chloride	ND	ug/kg	10.0	EPA 8260	
Naphthalene	ND	ug/kg	5.00	EPA 8260	
Styrene	ND	ug/kg	2.00	EPA 8260	
tert-Butylbenzene	ND	ug/kg	2.00	EPA 8260	
Tetrachloroethene	**112**	ug/kg	2.00	EPA 8260	
Toluene	ND	ug/kg	2.00	EPA 8260	
trans-1,3-Dichloropropene	ND	ug/kg	2.00	EPA 8260	
trans-1,4-Dichloro-2-butene	ND	ug/kg	5.00	EPA 8260	
Trichloroethene	ND	ug/kg	2.00	EPA 8260	
Trichlorofluoromethane	ND	ug/kg	2.00	EPA 8260	
Xylenes (total)	ND	ug/kg	4.00	EPA 8260	
2-Hexanone	ND	ug/kg	5.00	EPA 8260	
2-Chloroethylvinyl ether	ND	ug/kg	10.0	EPA 8260	
Carbon disulfide	ND	ug/kg	2.00	EPA 8260	
Carbon tetrachloride	ND	ug/kg	2.00	EPA 8260	
Chlorobenzene	ND	ug/kg	2.00	EPA 8260	
cis-1,2-Dichloroethene	ND	ug/kg	2.00	EPA 8260	
cis-1,3-Dichloropropene	ND	ug/kg	2.00	EPA 8260	
Dibromochloromethane	ND	ug/kg	2.00	EPA 8260	

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Columbus, OH 43240

Date Reported: 5/21/09

Project: 082-369
P.O. Number: [none]
Project Manager: Ron Wells

ANALYTICAL RESULTS

Client Sample I.D.: CS-9 (7')
AALI Sample I.D.: 0905084-09 (Soil)

Date Received: 5/20/09
Date Collected: 5/20/09

Analyte	Result	Units	Reporting Limit	Method	Notes
Dibromomethane	ND	ug/kg	2.00	EPA 8260	
Vinyl acetate	ND	ug/kg	10.0	EPA 8260	
Vinyl chloride	ND	ug/kg	2.00	EPA 8260	
2-Chlorotoluene	ND	ug/kg	2.00	EPA 8260	
4-Chlorotoluene	ND	ug/kg	2.00	EPA 8260	
4-Methyl-2-pentanone	ND	ug/kg	5.00	EPA 8260	
Acrolein	ND	ug/kg	100	EPA 8260	
Acrylonitrile	ND	ug/kg	10.0	EPA 8260	
Dichlorodifluoromethane	ND	ug/kg	2.00	EPA 8260	
Iodomethane	ND	ug/kg	5.00	EPA 8260	
Isopropyl alcohol	ND	ug/kg	5.00	EPA 8260	
Methyl tert-butyl ether	ND	ug/kg	5.00	EPA 8260	
n-Butylbenzene	ND	ug/kg	2.00	EPA 8260	
trans-1,2-Dichloroethene	ND	ug/kg	5.00	EPA 8260	
1,1-Dichloropropene	ND	ug/kg	5.00	EPA 8260	
n-Propylbenzene	ND	ug/kg	2.00	EPA 8260	
1,3-Dichloropropane	ND	ug/kg	2.00	EPA 8260	
Isopropylbenzene	ND	ug/kg	2.00	EPA 8260	
Bromobenzene	ND	ug/kg	2.00	EPA 8260	
sec-Butylbenzene	ND	ug/kg	2.00	EPA 8260	
1,2,3-Trichlorobenzene	ND	ug/kg	5.00	EPA 8260	
1,2,4-Trimethylbenzene	ND	ug/kg	2.00	EPA 8260	
1,3,5-Trimethylbenzene	ND	ug/kg	2.00	EPA 8260	
p-Isopropyltoluene	ND	ug/kg	2.00	EPA 8260	

ADVANCED ANALYTICS LABORATORIES, INC.
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Analysis & Testing - Quality Control Programs - Research & Development

Civil & Environmental Consultants, Inc.
8740 Orion Place, Suite 100
Columbus, OH 43240

Date Reported: 5/21/09

Project: 082-369
P.O. Number: [none]
Project Manager: Ron Wells

ANALYTICAL RESULTS

Client Sample I.D.: CS-10 (7')
AALI Sample I.D.: 0905084-10 (Soil)

Date Received: 5/20/09
Date Collected: 5/20/09

Analyte	Result	Units	Reporting Limit	Method	Notes
8260 VOC by GCMS	**Date Analyzed:** 5/20/09				
Surrogate: 1,2-Dichloroethane-d4	*120 %*		*80-120*		
Surrogate: Toluene-d8	*98.2 %*		*80-120*		
Surrogate: 4-Bromofluorobenzene	*99.7 %*		*80-120*		
1,1,1,2-Tetrachloroethane	ND	ug/kg	2.00	EPA 8260	
1,1,1-Trichloroethane	ND	ug/kg	2.00	EPA 8260	
1,1,2,2-Tetrachloroethane	ND	ug/kg	2.00	EPA 8260	
1,1,2-Trichloroethane	ND	ug/kg	2.00	EPA 8260	
1,1-Dichloroethane	ND	ug/kg	2.00	EPA 8260	
1,1-Dichloroethene	ND	ug/kg	2.00	EPA 8260	
1,2,3-Trichloropropane	ND	ug/kg	5.00	EPA 8260	
1,2-Dibromo-3-chloropropane	ND	ug/kg	5.00	EPA 8260	
1,2-Dibromoethane (EDB)	ND	ug/kg	2.00	EPA 8260	
1,2-Dichlorobenzene	ND	ug/kg	2.00	EPA 8260	
1,2-Dichloroethane	ND	ug/kg	2.00	EPA 8260	
1,2-Dichloropropane	ND	ug/kg	2.00	EPA 8260	
1,3-Dichlorobenzene	ND	ug/kg	2.00	EPA 8260	
1,4-Dichlorobenzene	ND	ug/kg	2.00	EPA 8260	
Acetone	ND	ug/kg	10.0	EPA 8260	
Benzene	ND	ug/kg	2.00	EPA 8260	
Bromochloromethane	ND	ug/kg	2.00	EPA 8260	
Bromodichloromethane	ND	ug/kg	2.00	EPA 8260	
Bromoform	ND	ug/kg	2.00	EPA 8260	

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Project: 082-369
P.O. Number: [none]
Project Manager: Ron Wells

ANALYTICAL RESULTS

Client Sample I.D.: CS-10 (7')
AALI Sample I.D.: 0905084-10 (Soil)

Date Received: 5/20/09
Date Collected: 5/20/09

Analyte	Result	Units	Reporting Limit	Method	Notes
Bromomethane	ND	ug/kg	5.00	EPA 8260	
Chloroethane	ND	ug/kg	2.00	EPA 8260	
Chloroform	ND	ug/kg	2.00	EPA 8260	
Chloromethane	ND	ug/kg	2.00	EPA 8260	
Ethylbenzene	ND	ug/kg	2.00	EPA 8260	
Methyl ethyl ketone	ND	ug/kg	10.0	EPA 8260	
Methylene chloride	ND	ug/kg	10.0	EPA 8260	
Naphthalene	ND	ug/kg	5.00	EPA 8260	
Styrene	ND	ug/kg	2.00	EPA 8260	
tert-Butylbenzene	ND	ug/kg	2.00	EPA 8260	
Tetrachloroethene	**269**	ug/kg	10.0	EPA 8260	
Toluene	ND	ug/kg	2.00	EPA 8260	
trans-1,3-Dichloropropene	ND	ug/kg	2.00	EPA 8260	
trans-1,4-Dichloro-2-butene	ND	ug/kg	5.00	EPA 8260	
Trichloroethene	ND	ug/kg	2.00	EPA 8260	
Trichlorofluoromethane	ND	ug/kg	2.00	EPA 8260	
Xylenes (total)	ND	ug/kg	4.00	EPA 8260	
2-Hexanone	ND	ug/kg	5.00	EPA 8260	
2-Chloroethylvinyl ether	ND	ug/kg	10.0	EPA 8260	
Carbon disulfide	ND	ug/kg	2.00	EPA 8260	
Carbon tetrachloride	ND	ug/kg	2.00	EPA 8260	
Chlorobenzene	ND	ug/kg	2.00	EPA 8260	
cis-1,2-Dichloroethene	ND	ug/kg	2.00	EPA 8260	
cis-1,3-Dichloropropene	ND	ug/kg	2.00	EPA 8260	
Dibromochloromethane	ND	ug/kg	2.00	EPA 8260	

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Date Reported: 5/21/09

Project: 082-369
P.O. Number: [none]
Project Manager: Ron Wells

ANALYTICAL RESULTS

Client Sample I.D.: CS-10 (7')
AALI Sample I.D.: 0905084-10 (Soil)

Date Received: 5/20/09
Date Collected: 5/20/09

Analyte	Result	Units	Reporting Limit	Method	Notes
Dibromomethane	ND	ug/kg	2.00	EPA 8260	
Vinyl acetate	ND	ug/kg	10.0	EPA 8260	
Vinyl chloride	ND	ug/kg	2.00	EPA 8260	
2-Chlorotoluene	ND	ug/kg	2.00	EPA 8260	
4-Chlorotoluene	ND	ug/kg	2.00	EPA 8260	
4-Methyl-2-pentanone	ND	ug/kg	5.00	EPA 8260	
Acrolein	ND	ug/kg	100	EPA 8260	
Acrylonitrile	ND	ug/kg	10.0	EPA 8260	
Dichlorodifluoromethane	ND	ug/kg	2.00	EPA 8260	
Iodomethane	ND	ug/kg	5.00	EPA 8260	
Isopropyl alcohol	ND	ug/kg	5.00	EPA 8260	
Methyl tert-butyl ether	ND	ug/kg	5.00	EPA 8260	
n-Butylbenzene	ND	ug/kg	2.00	EPA 8260	
trans-1,2-Dichloroethene	ND	ug/kg	5.00	EPA 8260	
1,1-Dichloropropene	ND	ug/kg	5.00	EPA 8260	
n-Propylbenzene	ND	ug/kg	2.00	EPA 8260	
1,3-Dichloropropane	ND	ug/kg	2.00	EPA 8260	
Isopropylbenzene	ND	ug/kg	2.00	EPA 8260	
Bromobenzene	ND	ug/kg	2.00	EPA 8260	
sec-Butylbenzene	ND	ug/kg	2.00	EPA 8260	
1,2,3-Trichlorobenzene	ND	ug/kg	5.00	EPA 8260	
1,2,4-Trimethylbenzene	ND	ug/kg	2.00	EPA 8260	
1,3,5-Trimethylbenzene	ND	ug/kg	2.00	EPA 8260	
p-Isopropyltoluene	ND	ug/kg	2.00	EPA 8260	

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Date Reported: 5/21/09

Project: 082-369
P.O. Number: [none]
Project Manager: Ron Wells

ANALYTICAL RESULTS

Client Sample I.D.: W-1
AALI Sample I.D.: 0905084-11 (Water)

Date Received: 5/20/09
Date Collected: 5/20/09

Analyte	Result	Units	Reporting Limit	Method	Notes
8260 VOC by GCMS	**Date Analyzed:** 5/21/09				
Surrogate: 1,2-Dichloroethane-d4	*91.2 %*		*80-120*		
Surrogate: Toluene-d8	*99.5 %*		*80-120*		
Surrogate: 4-Bromofluorobenzene	*104 %*		*80-120*		
1,1,1,2-Tetrachloroethane	ND	ug/l	2.00	EPA 8260A	
1,1,1-Trichloroethane	ND	ug/l	2.00	EPA 8260A	
1,1,2,2-Tetrachloroethane	ND	ug/l	2.00	EPA 8260A	
1,1,2-Trichloroethane	ND	ug/l	2.00	EPA 8260A	
1,1-Dichloroethane	ND	ug/l	2.00	EPA 8260A	
1,1-Dichloroethene	ND	ug/l	2.00	EPA 8260A	
1,2,3-Trichloropropane	ND	ug/l	2.00	EPA 8260A	
1,2,4-Trimethylbenzene	ND	ug/l	2.00	EPA 8260A	
1,2-Dibromo-3-chloropropane	ND	ug/l	5.00	EPA 8260A	
1,2-Dibromoethane (EDB)	ND	ug/l	2.00	EPA 8260A	
1,2-Dichlorobenzene	ND	ug/l	2.00	EPA 8260A	
trans-1,2-Dichloroethene	ND	ug/l	2.00	EPA 8260A	
1,2-Dichloroethane	ND	ug/l	2.00	EPA 8260A	
1,2-Dichloropropane	ND	ug/l	2.00	EPA 8260A	
1,3,5-Trimethylbenzene	ND	ug/l	2.00	EPA 8260A	
1,3-Dichlorobenzene	ND	ug/l	2.00	EPA 8260A	
1,4-Dichlorobenzene	ND	ug/l	2.00	EPA 8260A	
Acetone	ND	ug/l	10.0	EPA 8260A	
Benzene	ND	ug/l	2.00	EPA 8260A	

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Date Reported: 5/21/09

Project: 082-369
P.O. Number: [none]
Project Manager: Ron Wells

ANALYTICAL RESULTS

Client Sample I.D.: W-1
AALI Sample I.D.: 0905084-11 (Water)

Date Received: 5/20/09
Date Collected: 5/20/09

Analyte	Result	Units	Reporting Limit	Method	Notes
Bromochloromethane	ND	ug/l	2.00	EPA 8260A	
Bromodichloromethane	ND	ug/l	2.00	EPA 8260A	
Bromoform	ND	ug/l	2.00	EPA 8260A	
1,1-Dichloropropene	ND	ug/l	2.00	EPA 8260A	
Bromomethane	ND	ug/l	5.00	EPA 8260A	
Chloroethane	ND	ug/l	2.00	EPA 8260A	
Chloroform	**14.9**	ug/l	2.00	EPA 8260A	
Chloromethane	ND	ug/l	2.00	EPA 8260A	
Ethylbenzene	ND	ug/l	2.00	EPA 8260A	
Methyl ethyl ketone	ND	ug/l	10.0	EPA 8260A	
Methylene chloride	ND	ug/l	5.00	EPA 8260A	
Naphthalene	ND	ug/l	5.00	EPA 8260A	
Styrene	ND	ug/l	2.00	EPA 8260A	
tert-Butylbenzene	ND	ug/l	2.00	EPA 8260A	
Tetrachloroethene	**200**	ug/l	2.00	EPA 8260A	
Toluene	**15.1**	ug/l	2.00	EPA 8260A	
trans-1,3-Dichloropropene	ND	ug/l	2.00	EPA 8260A	
trans-1,4-Dichloro-2-butene	ND	ug/l	2.00	EPA 8260A	
Trichloroethene	ND	ug/l	2.00	EPA 8260A	
Trichlorofluoromethane	ND	ug/l	2.00	EPA 8260A	
Xylenes (total)	ND	ug/l	2.00	EPA 8260A	
2-Hexanone	ND	ug/l	5.00	EPA 8260A	
2-Chloroethylvinyl ether	ND	ug/l	10.0	EPA 8260A	
Carbon disulfide	ND	ug/l	2.00	EPA 8260A	
Carbon tetrachloride	ND	ug/l	2.00	EPA 8260A	

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Date Reported: 5/21/09

Project: 082-369
P.O. Number: [none]
Project Manager: Ron Wells

ANALYTICAL RESULTS

Client Sample I.D.: W-1
AALI Sample I.D.: 0905084-11 (Water)

Date Received: 5/20/09
Date Collected: 5/20/09

Analyte	Result	Units	Reporting Limit	Method	Notes
1,3-Dichloropropane	ND	ug/l	2.00	EPA 8260A	
Chlorobenzene	ND	ug/l	2.00	EPA 8260A	
cis-1,2-Dichloroethene	ND	ug/l	2.00	EPA 8260A	
cis-1,3-Dichloropropene	ND	ug/l	2.00	EPA 8260A	
Dibromochloromethane	ND	ug/l	2.00	EPA 8260A	
Dibromomethane	ND	ug/l	2.00	EPA 8260A	
Vinyl acetate	ND	ug/l	10.0	EPA 8260A	
Vinyl chloride	ND	ug/l	2.00	EPA 8260A	
2-Chlorotoluene	ND	ug/l	2.00	EPA 8260A	
4-Chlorotoluene	ND	ug/l	2.00	EPA 8260A	
4-Methyl-2-pentanone	ND	ug/l	5.00	EPA 8260A	
Acrolein	ND	ug/l	100	EPA 8260A	
Bromobenzene	ND	ug/l	2.00	EPA 8260A	
Acrylonitrile	ND	ug/l	10.0	EPA 8260A	
Dichlorodifluoromethane	ND	ug/l	2.00	EPA 8260A	
Iodomethane	ND	ug/l	5.00	EPA 8260A	
Isopropylbenzene	ND	ug/l	2.00	EPA 8260A	
Methyl tert-butyl ether	ND	ug/l	5.00	EPA 8260A	
n-Butylbenzene	ND	ug/l	2.00	EPA 8260A	
n-Propylbenzene	ND	ug/l	2.00	EPA 8260A	
p-Isopropyltoluene	ND	ug/l	2.00	EPA 8260A	
sec-Butylbenzene	ND	ug/l	2.00	EPA 8260A	
1,2,3-Trichlorobenzene	ND	ug/l	5.00	EPA 8260A	

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Date Reported: 5/21/09

Project: 082-369
P.O. Number: [none]
Project Manager: Ron Wells

ANALYTICAL RESULTS

Client Sample I.D.: W-2
AALI Sample I.D.: 0905084-12 (Water)

Date Received: 5/20/09
Date Collected: 5/20/09

Analyte	Result	Units	Reporting Limit	Method	Notes
8260 VOC by GCMS	**Date Analyzed:** 5/21/09				
Surrogate: 1,2-Dichloroethane-d4	*101 %*		*80-120*		
Surrogate: Toluene-d8	*98.2 %*		*80-120*		
Surrogate: 4-Bromofluorobenzene	*106 %*		*80-120*		
1,1,1,2-Tetrachloroethane	ND	ug/l	2.00	EPA 8260A	
1,1,1-Trichloroethane	ND	ug/l	2.00	EPA 8260A	
1,1,2,2-Tetrachloroethane	ND	ug/l	2.00	EPA 8260A	
1,1,2-Trichloroethane	ND	ug/l	2.00	EPA 8260A	
1,1-Dichloroethane	ND	ug/l	2.00	EPA 8260A	
1,1-Dichloroethene	ND	ug/l	2.00	EPA 8260A	
1,2,3-Trichloropropane	ND	ug/l	2.00	EPA 8260A	
1,2,4-Trimethylbenzene	ND	ug/l	2.00	EPA 8260A	
1,2-Dibromo-3-chloropropane	ND	ug/l	5.00	EPA 8260A	
1,2-Dibromoethane (EDB)	ND	ug/l	2.00	EPA 8260A	
1,2-Dichlorobenzene	ND	ug/l	2.00	EPA 8260A	
trans-1,2-Dichloroethene	ND	ug/l	2.00	EPA 8260A	
1,2-Dichloroethane	ND	ug/l	2.00	EPA 8260A	
1,2-Dichloropropane	ND	ug/l	2.00	EPA 8260A	
1,3,5-Trimethylbenzene	ND	ug/l	2.00	EPA 8260A	
1,3-Dichlorobenzene	ND	ug/l	2.00	EPA 8260A	
1,4-Dichlorobenzene	ND	ug/l	2.00	EPA 8260A	
Acetone	ND	ug/l	10.0	EPA 8260A	
Benzene	ND	ug/l	2.00	EPA 8260A	

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Date Reported: 5/21/09

Project: 082-369
P.O. Number: [none]
Project Manager: Ron Wells

ANALYTICAL RESULTS

Client Sample I.D.: W-2
AALI Sample I.D.: 0905084-12 (Water)

Date Received: 5/20/09
Date Collected: 5/20/09

Analyte	Result	Units	Reporting Limit	Method	Notes
Bromochloromethane	ND	ug/l	2.00	EPA 8260A	
Bromodichloromethane	**3.52**	ug/l	2.00	EPA 8260A	
Bromoform	ND	ug/l	2.00	EPA 8260A	
1,1-Dichloropropene	ND	ug/l	2.00	EPA 8260A	
Bromomethane	ND	ug/l	5.00	EPA 8260A	
Chloroethane	ND	ug/l	2.00	EPA 8260A	
Chloroform	**30.3**	ug/l	2.00	EPA 8260A	
Chloromethane	ND	ug/l	2.00	EPA 8260A	
Ethylbenzene	ND	ug/l	2.00	EPA 8260A	
Methyl ethyl ketone	ND	ug/l	10.0	EPA 8260A	
Methylene chloride	ND	ug/l	5.00	EPA 8260A	
Naphthalene	ND	ug/l	5.00	EPA 8260A	
Styrene	ND	ug/l	2.00	EPA 8260A	
tert-Butylbenzene	ND	ug/l	2.00	EPA 8260A	
Tetrachloroethene	**303**	ug/l	20.0	EPA 8260A	
Toluene	ND	ug/l	2.00	EPA 8260A	
trans-1,3-Dichloropropene	ND	ug/l	2.00	EPA 8260A	
trans-1,4-Dichloro-2-butene	ND	ug/l	2.00	EPA 8260A	
Trichloroethene	ND	ug/l	2.00	EPA 8260A	
Trichlorofluoromethane	ND	ug/l	2.00	EPA 8260A	
Xylenes (total)	ND	ug/l	2.00	EPA 8260A	
2-Hexanone	ND	ug/l	5.00	EPA 8260A	
2-Chloroethylvinyl ether	ND	ug/l	10.0	EPA 8260A	
Carbon disulfide	ND	ug/l	2.00	EPA 8260A	
Carbon tetrachloride	ND	ug/l	2.00	EPA 8260A	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

L. Eve Karnitis, President

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Date Reported: 5/21/09

Project: 082-369
P.O. Number: [none]
Project Manager: Ron Wells

ANALYTICAL RESULTS

Client Sample I.D.: W-2
AALI Sample I.D.: 0905084-12 (Water)

Date Received: 5/20/09
Date Collected: 5/20/09

Analyte	Result	Units	Reporting Limit	Method	Notes
1,3-Dichloropropane	ND	ug/l	2.00	EPA 8260A	
Chlorobenzene	ND	ug/l	2.00	EPA 8260A	
cis-1,2-Dichloroethene	ND	ug/l	2.00	EPA 8260A	
cis-1,3-Dichloropropene	ND	ug/l	2.00	EPA 8260A	
Dibromochloromethane	ND	ug/l	2.00	EPA 8260A	
Dibromomethane	ND	ug/l	2.00	EPA 8260A	
Vinyl acetate	ND	ug/l	10.0	EPA 8260A	
Vinyl chloride	ND	ug/l	2.00	EPA 8260A	
2-Chlorotoluene	ND	ug/l	2.00	EPA 8260A	
4-Chlorotoluene	ND	ug/l	2.00	EPA 8260A	
4-Methyl-2-pentanone	ND	ug/l	5.00	EPA 8260A	
Acrolein	ND	ug/l	100	EPA 8260A	
Bromobenzene	ND	ug/l	2.00	EPA 8260A	
Acrylonitrile	ND	ug/l	10.0	EPA 8260A	
Dichlorodifluoromethane	ND	ug/l	2.00	EPA 8260A	
Iodomethane	ND	ug/l	5.00	EPA 8260A	
Isopropylbenzene	ND	ug/l	2.00	EPA 8260A	
Methyl tert-butyl ether	ND	ug/l	5.00	EPA 8260A	
n-Butylbenzene	ND	ug/l	2.00	EPA 8260A	
n-Propylbenzene	ND	ug/l	2.00	EPA 8260A	
p-Isopropyltoluene	ND	ug/l	2.00	EPA 8260A	
sec-Butylbenzene	ND	ug/l	2.00	EPA 8260A	
1,2,3-Trichlorobenzene	ND	ug/l	5.00	EPA 8260A	

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Date Reported: 5/21/09

Project: 082-369
P.O. Number: [none]
Project Manager: Ron Wells

Notes and Definitions

DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit

L. Eve Kamitis, President

APPENDIX D

FLOOR SEALANT INFORMATION

ArmorSeal Heavy Duty Floor Coatings

ARMORSEAL® 650 SL/RC
SELF-LEVELING/RECOATABLE EPOXY

PART A	B58-650	SERIES
PART B	B60VQ655	STANDARD HARDENER
PART B	B60VQ656	FAST SET HARDENER

Revised 9/09

PRODUCT INFORMATION

8.25

PRODUCT DESCRIPTION

ARMORSEAL 650 SL/RC self-leveling, recoatable epoxy is a two-component, heavy duty floor system that provides a high gloss, seamless, hygienic surface that is extremely hard wearing and durable. The coating can also be applied to provide a nonslip texture. This product may be topcoated if required.

- Chemical resistant
- Impact resistant
- Abrasion resistant
- Outstanding application properties

PRODUCT CHARACTERISTICS

Finish:	Full Gloss
Color:	Clear, Haze Gray, Deck Gray, White, Sandstone, Tile Red, and wide range of colors possible
Volume Solids:	100%, mixed
VOC (EPA Method):	<100 g/L; 0.83 lb/gal, mixed
Mix Ratio:	2 component, premeasured

Recommended Spreading Rate per coat:

	Minimum		Maximum	
Wet mils (microns)	**10.0**	250	**30.0***	750*
Dry mils (microns)	**10.0**	250	**30.0**	750
~Coverage sq ft/gal (m^2/L)	**50**	1.2	**160**	3.9
Theoretical coverage **sq ft/gal** (m^2/L) @ 1 mil / 25 microns dft	**1600**	39		

*Apply Clear at only 10-15 mils (250-375 microns) maximum per coat

Drying Schedule @ 10.0 mils wet (250 microns):

	@ 55°F/13°C	@ 72°F/22°C 50% RH	@ 95°F/35°C
B60VQ655 (Std Hardener):			
To touch:	16-24 hours	6-12 hours	4-8 hours
To recoat:			
minimum:	36 hours	8 hours	6 hours
maximum:	72 hours	72 hours	72 hours
Foot traffic:	48 hours	24 hours	18 hours
Heavy traffic:	96 hours	72 hours	60 hours
To cure:	7 days	7 days	7 days
Pot Life:	60 minutes	40 minutes	20 minutes
Sweat-in-Time:	None	None	None

	@ 72°F/22°C 50% RH
***B60VQ656 (Fast Set Hardener)*:**	
To touch:	4 hours
To recoat:	
minimum:	8 hours
maximum:	72 hours
Foot traffic:	10-12 hours
Heavy traffic:	24-48 hours
To cure:	7 days

Abrade surface if recoating after 72 hours.

Drying time is temperature, humidity, and film thickness dependent.

*Do Not use Fast Set Hardener with tint bases.

Pot Life:	25 minutes
Sweat-in-Time:	None

PRODUCT CHARACTERISTICS (CONT'D)

Shelf Life:	18 months, unopened Store indoors at 40°F (4.5°C) to 100°F (38°C)
Flash Point:	200°F (93°C), PMCC, mixed
Reducer:	Not recommended
Clean Up:	Reducer #54, R7K54

RECOMMENDED USES

- Especially suited for clean rooms, aircraft hangars, laboratories, workshops and light assembly areas.
- The product can be applied at thicknesses from 10.0-30.0 mils (250-750 microns) dft.
- Suitable for application in nuclear power facilities.
- For use as part of the ArmorQuartz system, a decorative broadcast color quartz system.
- Suitable for use in USDA inspected facilities

PERFORMANCE CHARACTERISTICS

- Excellent adhesion properties
- Chemical resistant
- Self - leveling properties
- Provides a seamless-high build durable coating
- Solvent resistant
- Dry heat resistance: 200°F (93°C)

Test Name	Test Method	Results
Abrasion Resistance	ASTM D4060, CS17 wheel, 1000 cycles, 1 Kg load	100 mg loss
Decontamination - of Coatings used in Nuclear Power Plants	ANSI 5.12 / ASTM D4256-89	Passes
Flexural Strength	ASTM D790	~12,400 psi
Hardness - Shore D	ASTM D2240	75
Impact Resistance	Mil-D-3134J	Direct: >160 in lb; Indirect: > 80 in lb
Irradiation-Effects on Coatings used in Nuclear Power Plants	ANSI 5.12 / ASTM D4082-89	Passes
Tensile Strength	ASTM D638	~6,000 psi

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ArmorSeal Heavy Duty Floor Coatings

ARMORSEAL® 650 SL/RC
SELF-LEVELING/RECOATABLE EPOXY

PART A	B58-650	SERIES
PART B	B60VQ655	STANDARD HARDENER
PART B	B60VQ656	FAST SET HARDENER

PRODUCT INFORMATION

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RECOMMENDED SYSTEMS

		Dry Film Thickness / ct. Mils	(Microns)
Concrete:			
1 ct.	ArmorSeal 33 Primer	8.0	(200)
1 ct.	ArmorSeal 650 SL/RC	10.0-30.0	(250-750)
Concrete:			
1 ct.	ArmorSeal Water Based Epoxy Primer	2.0-3.0	(50-75)
1 ct.	ArmorSeal 650 SL/RC	10.0-30.0	(250-750)
Concrete:			
1 ct.	ArmorSeal Floor-Plex 7100 Primer	1.5-2.0	(40-50)
1 ct.	ArmorSeal 650 SL/RC	10.0-30.0	(250-750)
Steel:			
1 ct.	Recoatable Epoxy Primer	4.0-5.0	(100-125)
1 ct.	ArmorSeal 650 SL/RC	10.0-30.0	(250-750)
ArmorQuartz System*:			
1 ct.	ArmorSeal 33 Epoxy Primer/Sealer Clear, broadcast to excess with color quartz	10.0	(250)
1 ct.	ArmorSeal 33 Epoxy Primer/Sealer Clear, broadcast to excess with color quartz	24.0	(600)
1 ct.	ArmorSeal 650 SL/RC Clear at	15.0	(375)
1 ct.	ArmorSeal 650 SL/RC Clear at	8.0	(200)

*Refer to application procedures

The systems listed above are representative of the product's use, other systems may be appropriate.

SURFACE PREPARATION

Surface must be clean, dry, and in sound condition. Remove all oil, dust, grease, dirt, loose rust, and other foreign material to ensure adequate adhesion.

Refer to product application Bulletin for detailed surface preparation information.

Minimum recommended surface preparation:
* Iron & Steel: SSPC-SP6/NACE 3
* Concrete & Masonry: SSPC-SP13/NACE 6 or ICRI 03732, CSP 1-3

* Primer required

Surface Preparation Standards

	Condition of Surface	ISO 8501-1 BS7079:A1	Swedish Std. SIS055900	SSPC	NACE
White Metal		Sa 3	Sa 3	SP 5	1
Near White Metal		Sa 2.5	Sa 2.5	SP 10	2
Commercial Blast		Sa 2	Sa 2	SP 6	3
Brush-Off Blast		Sa 1	Sa 1	SP 7	4
Hand Tool Cleaning	Rusted	C St 2	C St 2	SP 2	-
	Pitted & Rusted	D St 2	D St 2	SP 2	-
Power Tool Cleaning	Rusted	C St 3	C St 3	SP 3	-
	Pitted & Rusted	D St 3	D St 3	SP 3	-

TINTING

Tinting acceptable for the tint bases only. Use Maxitoner colorants only at 50% tint strength. Five minutes minimum mixing on a mechanical shaker is required for complete mixing of color.

APPLICATION CONDITIONS

Temperature:	55°F (13°C) minimum, 95°F (35°C) maximum (air, surface, and material) At least 5°F (2.8°C) above dew point
Relative humidity:	85% maximum

Refer to product Application Bulletin for detailed application information.

ORDERING INFORMATION

Packaging:

1 gallon (3.78L) kit	contains Part A and Part B
5 gallon (18.9L) mix	Part A - 3.33 gal. (12.6L) in a 5 gal. (18.9L) container Part B - 1.67 gal. (6.3L) in a 2 gal. (7.56L) container

Weight: 10.4 ± 0.2 lb/gal ; 1.25 Kg/L, mixed

SAFETY PRECAUTIONS

Refer to the MSDS sheet before use.

Published technical data and instructions are subject to change without notice. Contact your Sherwin-Williams representative for additional technical data and instructions.

WARRANTY

The Sherwin-Williams Company warrants our products to be free of manufacturing defects in accord with applicable Sherwin-Williams quality control procedures. Liability for products proven defective, if any, is limited to replacement of the defective product or the refund of the purchase price paid for the defective product as determined by Sherwin-Williams. NO OTHER WARRANTY OR GUARANTEE OF ANY KIND IS MADE BY SHERWIN-WILLIAMS, EXPRESSED OR IMPLIED, STATUTORY, BY OPERATION OF LAW OR OTHERWISE, INCLUDING MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

DISCLAIMER

The information and recommendations set forth in this Product Data Sheet are based upon tests conducted by or on behalf of The Sherwin-Williams Company. Such information and recommendations set forth herein are subject to change and pertain to the product offered at the time of publication. Consult your Sherwin-Williams representative to obtain the most recent Product Data Information and Application Bulletin.

ArmorSeal Heavy Duty Floor Coatings

ARMORSEAL® 650 SL/RC
SELF-LEVELING/RECOATABLE EPOXY

PART A	B58-650	SERIES
PART B	B60VQ655	STANDARD HARDENER
PART B	B60VQ656	FAST SET HARDENER

Revised 9/09

APPLICATION BULLETIN

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SURFACE PREPARATIONS

Surface must be clean, dry, and in sound condition. Remove all oil, dust, grease, dirt, loose rust, and other foreign material to ensure adequate adhesion.

Concrete and Masonry
For surface preparation, refer to SSPC-SP13/NACE 6, or ICRI 03732, CSP 1-3. Surfaces should be thoroughly clean and dry. Concrete and mortar must be cured at least 28 days @ 75°F (24°C). Remove all loose mortar and foreign material. Surface must be free of laitance, concrete dust, dirt, form release agents, moisture curing membranes, loose cement and hardeners. Fill bug holes, air pockets and other voids with Steel-Seam FT910. Primer required.

Always follow the standard methods listed below:
ASTM D4258 Standard Practice for Cleaning Concrete.
ASTM D4259 Standard Practice for Abrading Concrete.
ASTM D4260 Standard Practice for Etching Concrete.
ASTM F1869 Standard Test Method for Measuring Moisture Vapor Emission Rate of Concrete.
SSPC-SP 13/Nace 6 Surface Preparation of Concrete.
ICRI 03732 Concrete Surface Preparation.

Iron & Steel
Remove all oil and grease from surface by Solvent Cleaning per SSPC-SP1. Minimum surface preparation is Commercial Blast Cleaning per SSPC-SP6/NACE 3. For better performance, use Near White Metal Blast Cleaning per SSPC-SP10/NACE 2. Blast clean all surfaces using a sharp, angular abrasive for optimum surface profile (2 mils / 50 microns). Prime any bare steel the same day as it is cleaned.

Previously Painted Surfaces:
If in sound condition, clean the surface of all foreign material. Smooth, hard or glossy coatings and surfaces should be dulled by abrading the surface. Apply a test area, allowing paint to dry one week before testing adhesion. If adhesion is poor, additional abrasion of the surface and/or removal of the previous coating may be necessary. Retest surface for adhesion. If paint is peeling or badly weathered, clean surface to sound substrate and treat as a new surface as above.

Surface Preparation Standards

	Condition of Surface	ISO 8501-1 BS7079:A1	Swedish Std. SIS055900	SSPC	NACE
White Metal		Sa 3	Sa 3	SP 5	1
Near White Metal		Sa 2.5	Sa 2.5	SP 10	2
Commercial Blast		Sa 2	Sa 2	SP 6	3
Brush-Off Blast		Sa 1	Sa 1	SP 7	4
Hand Tool Cleaning	Rusted	C St 2	C St 2	SP 2	-
	Pitted & Rusted	D St 2	D St 2	SP 2	-
Power Tool Cleaning	Rusted	C St 3	C St 3	SP 3	-
	Pitted & Rusted	D St 3	D St 3	SP 3	-

APPLICATION CONDITIONS

Temperature:	55°F (13°C) minimum, 95°F (35°C) maximum (air, surface, and material) At least 5°F (2.8°C) above dew point
Relative humidity:	85% maximum

APPLICATION EQUIPMENT

The following is a guide. Changes in pressures and tip sizes may be needed for proper spray characteristics. Always purge spray equipment before use with listed reducer. Any reduction must be compliant with existing VOC regulations and compatible with the existing environmental and application conditions.

Reducer .....Not recommended

Clean Up .....Reducer #54, R7K54

Roller
Cover .....3/8" woven with solvent resistant core

Trowel .....Acceptable

Squeegee .....Acceptable

Spike Roller/
Loop Roller .....Required

If specific application equipment is not listed above, equivalent equipment may be substituted.

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ArmorSeal Heavy Duty Floor Coatings

ARMORSEAL® 650 SL/RC
SELF-LEVELING/RECOATABLE EPOXY

PART A	B58-650	SERIES
PART B	B60VQ655	STANDARD HARDENER
PART B	B60VQ656	FAST SET HARDENER

APPLICATION BULLETIN

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APPLICATION PROCEDURES

Surface preparation must be completed as indicated.

To mix 1 gallon (3.78L) units: Use electric or air mixer (approximately 250 rpm) with metal mixing blade (Jiffy Model HS or equal). Premix both components for 1-2 minutes, then pour hardener contents into slack-filled resin can. Mix for 2 to 3 minutes, moving blade around can while mixing. Avoid whipping in air while mixing. To mix 5 gallon (18.9L) units use same procedure as mixing 1 gallon (3.78L) units except a larger blade (Jiffy Model ES or equal) is required.

Immediately pour entire mixture onto prepared substrate and spread with a flat rubber squeegee to the desired thickness and "cross-roll" using a 3/8" nap soft woven roller or equivalent. Check film thickness frequently. After 20-30 minutes setup time, material should be rolled with a spiked roller to remove any entrapped air. Do not spike roll after 40 minutes.

If a slip-resistant texture is desired, broadcast a clean, dry 30-50 mesh silica sand into the ArmorSeal 33 Primer coat immediately after application. Broadcast sand until the primer is saturated and only dry sand is showing. After the primer has set (6 hours minimum), sweep excess sand off the surface. Then topcoat with 15-20 mils (375-500 microns) of ArmorSeal 650 SL/RC. Lower topcoat thickness will produce more pronounced slip-resistant profiles, heavier topcoats will produce smoother profiles. Spike rolling is not necessary when ArmorSeal 650 SL/RC is applied as a slip-resistant coating.

Apply paint at the recommended film thickness and spreading rate as indicated below:

Recommended Spreading Rate per coat:

	Minimum	Maximum
Wet mils (microns)	**10.0** 250	**30.0*** 750*
Dry mils (microns)	**10.0** 250	**30.0** 750
~Coverage sq ft/gal (m^2/L)	**50** 1.2	**160** 3.9
Theoretical coverage **sq ft/gal** (m^2/L) @ 1 mil / 25 microns dft	**1600** 39	

*Apply Clear at only 10-15 mils (250-375 microns) maximum per coat

Drying Schedule @ 10.0 mils wet (250 microns):

	@ 55°F/13°C	@ 72°F/22°C 50% RH	@ 95°F/35°C
B60VQ655 (Std Hardener):			
To touch:	16-24 hours	6-12 hours	4-8 hours
To recoat:			
minimum:	36 hours	8 hours	6 hours
maximum:	72 hours	72 hours	72 hours
Foot traffic:	48 hours	24 hours	18 hours
Heavy traffic:	96 hours	72 hours	60 hours
To cure:	7 days	7 days	7 days
Pot Life:	60 minutes	40 minutes	20 minutes
Sweat-in-Time:	None	None	None

	@ 72°F/22°C 50% RH
***B60VQ656 (Fast Set Hardener)*:**	
To touch:	4 hours
To recoat:	
minimum:	8 hours
maximum:	72 hours
Foot traffic:	10-12 hours
Heavy traffic:	24-48 hours
To cure:	7 days
Abrade surface if recoating after 72 hours.	
Drying time is temperature, humidity, and film thickness dependent.	
*Do Not use Fast Set Hardener with tint bases.	
Pot Life:	25 minutes
Sweat-in-Time:	None

Application of coating above maximum or below minimum recommended spreading rate may adversely affect coating performance.

CLEAN UP INSTRUCTIONS

Clean spills and spatters immediately with Reducer #54, R7K54. Clean tools immediately after use with Reducer #54, R7K54. Follow manufacturer's safety recommendations when using any solvent.

DISCLAIMER

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PERFORMANCE TIPS

Spreading rates are calculated on volume solids and do not include an application loss factor due to surface profile, roughness or porosity of the surface, skill and technique of the applicator, method of application, various surface irregularities, material lost during mixing, spillage, overthinning, climatic conditions, and excessive film build.

Do not apply the material beyond recommended pot life. Do not mix previously catalyzed material with new.

Do Not use Fast Set Hardener with tint bases.

When recoating ArmorSeal 650 SL/RC, it must be done no less than 8 hours and no more than 72 hours after applying the first coat. If this "window" has passed, the surface of the cured ArmorSeal 650 SL/RC must be abraded to ensure the adhesion of subsequent coats.

ARMORQUARTZ SYSTEM APPLICATION PROCEDURES

First Broadcast Step

1. Pre-mix ArmorSeal 33 Epoxy Primer/Sealer Clear components as previously referenced.
2. Pour hardener contents into a slack-filled resin can and mix with low speed drill for 3 minutes and until uniform.
3. Immediately pour the mixed material onto the substrate and pull out using a squeegee and cross roll with a 3/8" nap roller at a spread rate of 140-145 square feet per gallon (approximately 10.0 mils / 250 microns wft).
4. Allow material to self-level for 10-15 minutes. Begin evenly seeding the color quartz into the wet resin (much the same as grass seed is spread). Color quartz may be spread by hand or mechanical blower but should be broadcast in such a way that the granules fall lightly into the resin without causing the resin to move. Continue broadcasting to excess until the floor appears completely dry.
5. Allow to cure (cure times vary depending on environmental conditions) and sweep off excess granules with a clean, stiff-bristled broom. Clean granules can be saved for future use. All imperfections, such as high spots, should be smoothed before the application of the second broadcast.

Second Broadcast Step

1. Premix ArmorSeal 33 Epoxy Primer/Sealer Clear components as previously referenced.
2. Pour hardener contents into a slack-filled resin can and mix with low speed drill for 3 minutes and until uniform.
3. Immediately pour the mixed material onto the substrate and pull out using a squeegee and cross roll with a 3/8" nap roller at a spread rate of 65-70 square feet per gallon (approximately 24.0 mils / 600 microns wft).
4. Allow material to self-level for 10-15 minutes. Begin evenly seeding the color quartz into the wet resin (much the same as grass seed is spread). Color quartz may be spread by hand or mechanical blower but should be broadcast in such a way that the granules fall lightly into the resin without causing the resin to move. Continue broadcasting to excess until the floor appears completely dry.
5. Allow to cure (cure times vary depending on environmental conditions) and sweep off excess granules with a clean, stiff-bristled broom. Clean granules can be saved for future use.

NOTE: Color quartz distribution is critical to the success of the application. The finished appearance depends on the manner in which the granules have been applied. In grass seed-like fashion, allow the granules to fall after being thrown upward and out. **Do not throw downward at a sharp angle using force.**

Ground Coat / Seal Coat

1. Premix both components of ArmorSeal 650 SL/RC Clear separately, using a low speed drill and Jiffy mixer. Mix for 1-2 minutes and until uniform, exercising caution not to introduce air into the material.
2. Combine and mix with low speed drill and Jiffy mixer for 2-3 minutes and until uniform. To insure proper system cure and performance, strictly follow mix ratio recommendations.
3. Apply ArmorSeal 650 SL/RC Clear using a flat trowel or squeegee and backroll with a 3/8" woven roller. Apply evenly at a spread rate of 100 square feet per gallon (approximately 15.0 mils / 400 microns wft), with no puddles, making sure of uniform coverage. Spike roll after 20-30 minutes as needed. Two coats may be required to duplicate desired texture. **Take care not to puddle materials and insure even coverage.**
4. Allow to cure. (Cure times vary depending on environmental conditions.)

SAFETY PRECAUTIONS

Refer to the MSDS sheet before use.

Published technical data and instructions are subject to change without notice. Contact your Sherwin-Williams representative for additional technical data and instructions.

WARRANTY

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MATERIAL SAFETY DATA SHEET

B58WQ651
05 00

DATE OF PREPARATION
Apr 28, 2009

SECTION 1 — PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NUMBER
B58WQ651
PRODUCT NAME
ARMORSEAL® 650SL/RC 100% Solids Self Leveling Epoxy Coating (Part A), White
MANUFACTURER'S NAME
THE SHERWIN-WILLIAMS COMPANY
101 Prospect Avenue N.W.
Cleveland, OH 44115

Telephone Numbers and Websites

Product Information	www.sherwin-williams.com
Regulatory Information	(216) 566-2902 www.paintdocs.com
Medical Emergency	(216) 566-2917
Transportation Emergency*	(800) 424-9300
**for Chemical Emergency ONLY (spill, leak, fire, exposure, or accident)*	

SECTION 2 — COMPOSITION/INFORMATION ON INGREDIENTS

% by Weight	CAS Number	Ingredient	Units	Vapor Pressure
3	84852-15-3	**4-Nonylphenol**		
		ACGIH TLV	Not Available	
		OSHA PEL	Not Available	
61	25085-99-8	**Epoxy Polymer**		
		ACGIH TLV	Not Available	
		OSHA PEL	Not Available	
32	13463-67-7	**Titanium Dioxide**		
		ACGIH TLV	10 mg/m3 as Dust	
		OSHA PEL	10 mg/m3 Total Dust	
		OSHA PEL	5 mg/m3 Respirable Fraction	

SECTION 3 — HAZARDS IDENTIFICATION

ROUTES OF EXPOSURE
INHALATION of vapor or spray mist.
EYE or SKIN contact with the product, vapor or spray mist.
EFFECTS OF OVEREXPOSURE
EYES: Causes burns.
SKIN: Causes burns.
INHALATION: Irritation of the upper respiratory system.

Prolonged overexposure to solvent ingredients in Section 2 may cause adverse effects to reproductive systems.
SIGNS AND SYMPTOMS OF OVEREXPOSURE
Redness and itching or burning sensation may indicate eye or excessive skin exposure.
MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE
May cause allergic skin reaction in susceptible persons or skin sensitization.
CANCER INFORMATION
For complete discussion of toxicology data refer to Section 11.

HMIS Codes

Health	3*
Flammability	1
Reactivity	1

SECTION 4 — FIRST AID MEASURES

EYES: Flush eyes with large amounts of water for 15 minutes. Get medical attention **IMMEDIATELY**.
SKIN: Wash affected area thoroughly with soap and water.
If irritation persists or occurs later, get medical attention.
Remove contaminated clothing and launder before re-use.
INHALATION: If affected, remove from exposure. Restore breathing. Keep warm and quiet.
INGESTION: Do not induce vomiting. Get medical attention immediately.

SECTION 5 — FIRE FIGHTING MEASURES

FLASH POINT	LEL	UEL	FLAMMABILITY CLASSIFICATION
200 °F PMCC	N.A.	N.A.	Not Applicable

EXTINGUISHING MEDIA

Carbon Dioxide, Dry Chemical, Foam

UNUSUAL FIRE AND EXPLOSION HAZARDS

Closed containers may explode (due to the build-up of pressure) when exposed to extreme heat.

During emergency conditions overexposure to decomposition products may cause a health hazard. Symptoms may not be immediately apparent. Obtain medical attention.

SPECIAL FIRE FIGHTING PROCEDURES

Full protective equipment including self-contained breathing apparatus should be used.

Water spray may be ineffective. If water is used, fog nozzles are preferable. Water may be used to cool closed containers to prevent pressure build-up and possible autoignition or explosion when exposed to extreme heat.

SECTION 6 — ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

- Remove all sources of ignition. Ventilate the area.
- Remove with inert absorbent.

SECTION 7 — HANDLING AND STORAGE

STORAGE CATEGORY

DOL Storage Class IIIB

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE

Keep container closed when not in use. Transfer only to approved containers with complete and appropriate labeling. Do not take internally. Keep out of the reach of children.

SECTION 8 — EXPOSURE CONTROLS/PERSONAL PROTECTION

PRECAUTIONS TO BE TAKEN IN USE

Use only with adequate ventilation.

Do not get in eyes or on skin. Avoid breathing vapor and spray mist.

Wash hands after using.

This coating may contain materials classified as nuisance particulates (listed "as Dust" in Section 2) which may be present at hazardous levels only during sanding or abrading of the dried film. If no specific dusts are listed in Section 2, the applicable limits for nuisance dusts are ACGIH TLV 10 mg/m3 (total dust), 3 mg/m3 (respirable fraction), OSHA PEL 15 mg/m3 (total dust), 5 mg/m3 (respirable fraction).

VENTILATION

Local exhaust preferable. General exhaust acceptable if the exposure to materials in Section 2 is maintained below applicable exposure limits. Refer to OSHA Standards 1910.94, 1910.107, 1910.108.

RESPIRATORY PROTECTION

If personal exposure cannot be controlled below applicable limits by ventilation, wear a properly fitted organic vapor/particulate respirator approved by NIOSH/MSHA for protection against materials in Section 2.

When sanding or abrading the dried film, wear a dust/mist respirator approved by NIOSH/MSHA for dust which may be generated from this product, underlying paint, or the abrasive.

PROTECTIVE GLOVES

To prevent skin contact, wear gloves which are recommended by glove supplier for protection against materials in Section 2.

EYE PROTECTION

To prevent eye contact, wear safety spectacles with unperforated sideshields.

OTHER PROTECTIVE EQUIPMENT

Use barrier cream on exposed skin.

OTHER PRECAUTIONS

This product must be mixed with other components before use. Before opening the packages, READ AND FOLLOW WARNING LABELS ON ALL COMPONENTS.

SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES

PRODUCT WEIGHT	12.37 lb/gal	1481 g/l
SPECIFIC GRAVITY	1.49	
BOILING POINT	Not Applicable	
MELTING POINT	Not Available	
VOLATILE VOLUME	0%	
EVAPORATION RATE	N.A.	
VAPOR DENSITY	N.A.	
SOLUBILITY IN WATER	N.A.	

VOLATILE ORGANIC COMPOUNDS (VOC Theoretical - As Packaged)

0.01lb/gal	1g/l	Less Water and Federally Exempt Solvents
0.01lb/gal	1g/l	Emitted VOC

VOLATILE ORGANIC COMPOUNDS (VOC - As Applied)

<0.83 lb/gal	<100 g/l	Less Water and Federally Exempt Solvents

SECTION 10 — STABILITY AND REACTIVITY

STABILITY — Stable

CONDITIONS TO AVOID

None known.

INCOMPATIBILITY

None known.

HAZARDOUS DECOMPOSITION PRODUCTS

By fire: Carbon Dioxide, Carbon Monoxide

HAZARDOUS POLYMERIZATION

Will not occur

SECTION 11 — TOXICOLOGICAL INFORMATION

CHRONIC HEALTH HAZARDS

IARC's Monograph No. 93 reports there is sufficient evidence of carcinogenicity in experimental rats exposed to titanium dioxide but inadequate evidence for carcinogenicity in humans and has assigned a Group 2B rating. In addition, the IARC summary concludes, "No significant exposure to titanium dioxide is thought to occur during the use of products in which titanium is bound to other materials, such as paint."

TOXICOLOGY DATA

CAS No.	Ingredient Name			
84852-15-3	4-Nonylphenol			
		LC50 RAT	4HR	Not Available
		LD50 RAT		Not Available
25085-99-8	Epoxy Polymer			
		LC50 RAT	4HR	Not Available
		LD50 RAT		Not Available
13463-67-7	Titanium Dioxide			
		LC50 RAT	4HR	Not Available
		LD50 RAT		Not Available

SECTION 12 — ECOLOGICAL INFORMATION

ECOTOXICOLOGICAL INFORMATION

No data available.

SECTION 13 — DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD

Waste from this product is not hazardous as defined under the Resource Conservation and Recovery Act (RCRA) 40 CFR 261.

Incinerate in approved facility. Do not incinerate closed container. Dispose of in accordance with Federal, State/Provincial, and Local regulations regarding pollution.

SECTION 14 — TRANSPORT INFORMATION

US Ground (DOT)

Not Regulated for Transportation.

Canada (TDG)

Not Regulated for Transportation.

IMO

Not Regulated for Transportation.

SECTION 15 — REGULATORY INFORMATION

SARA 313 *(40 CFR 372.65C)* SUPPLIER NOTIFICATION

CAS No.	CHEMICAL/COMPOUND	% by WT	% Element

No ingredients in this product are subject to SARA 313 (40 CFR 372.65C) Supplier Notification.

CALIFORNIA PROPOSITION 65

WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

TSCA CERTIFICATION

All chemicals in this product are listed, or are exempt from listing, on the TSCA Inventory.

SECTION 16 — OTHER INFORMATION

This product has been classified in accordance with the hazard criteria of the Canadian Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

The above information pertains to this product as currently formulated, and is based on the information available at this time. Addition of reducers or other additives to this product may substantially alter the composition and hazards of the product. Since conditions of use are outside our control, we make no warranties, express or implied, and assume no liability in connection with any use of this information.

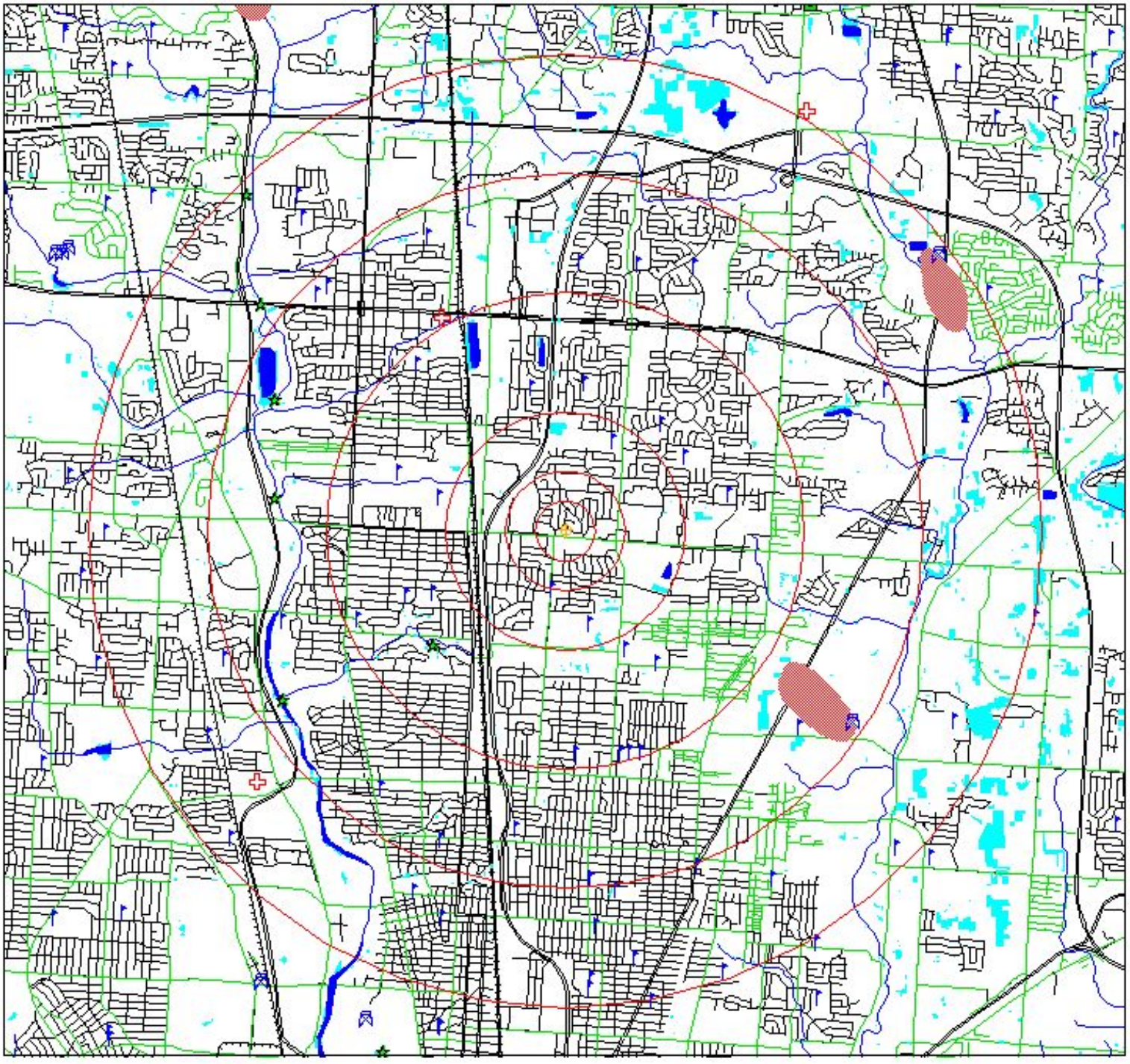
Ohio EPA

Division of Emergency & Remedial Response

GEOGRAPHIC INFORMATION SYSTEM 4-MILE RADIUS MAP

Franklin County

Custom Cleaners



Site
School
Hospital
Public Surface Water Systems
Public Ground Water Systems
US Endangered/Threatened Species
Ohio Endangered/Threatened Species

Wetland Area
Lakes & Ponds
Wellhead Protection Area
Limit of Radius From Site
County Boundaries

Rivers & Streams
Railroad
State and Federal Highways
Local Roads
Municipal Roads

N

2 0 2 Miles

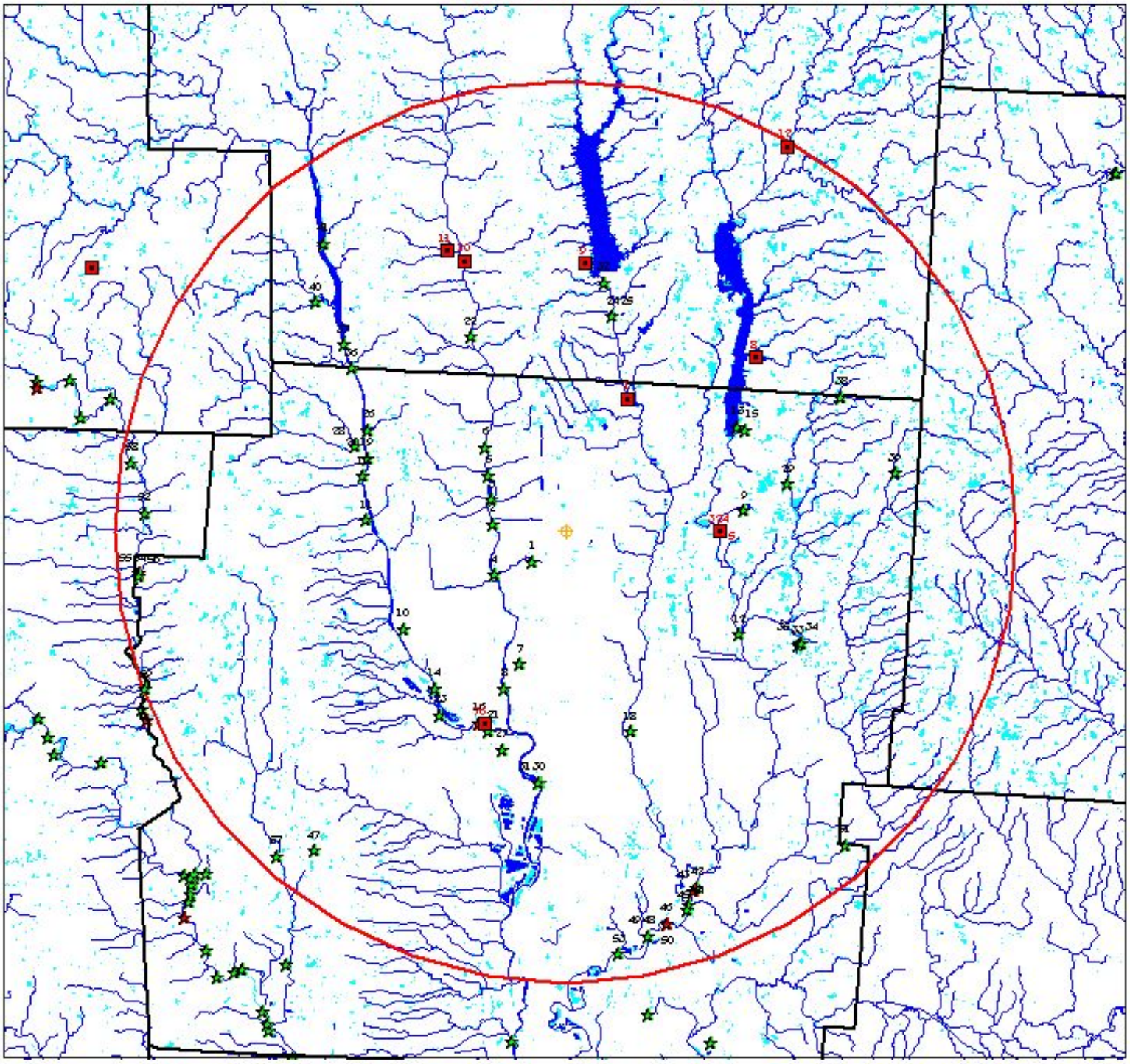
OhioEPA

Division of Emergency & Remedial Response

GEOGRAPHIC INFORMATION SYSTEM 15-MILE RADIUS MAP

NATURAL HERITAGE DATA

Custom Cleaners



Site
US Endangered/Threatened Species
Ohio Endangered/Threatened Species

Public Surface Water Systems
Community
Non-Community/Transient
Non-Community/Non-Transient

Rivers & Streams
Wetland Area
Lakes & Ponds
Limit of Radius From Site
County Boundaries

N

4 0 4 8 Miles

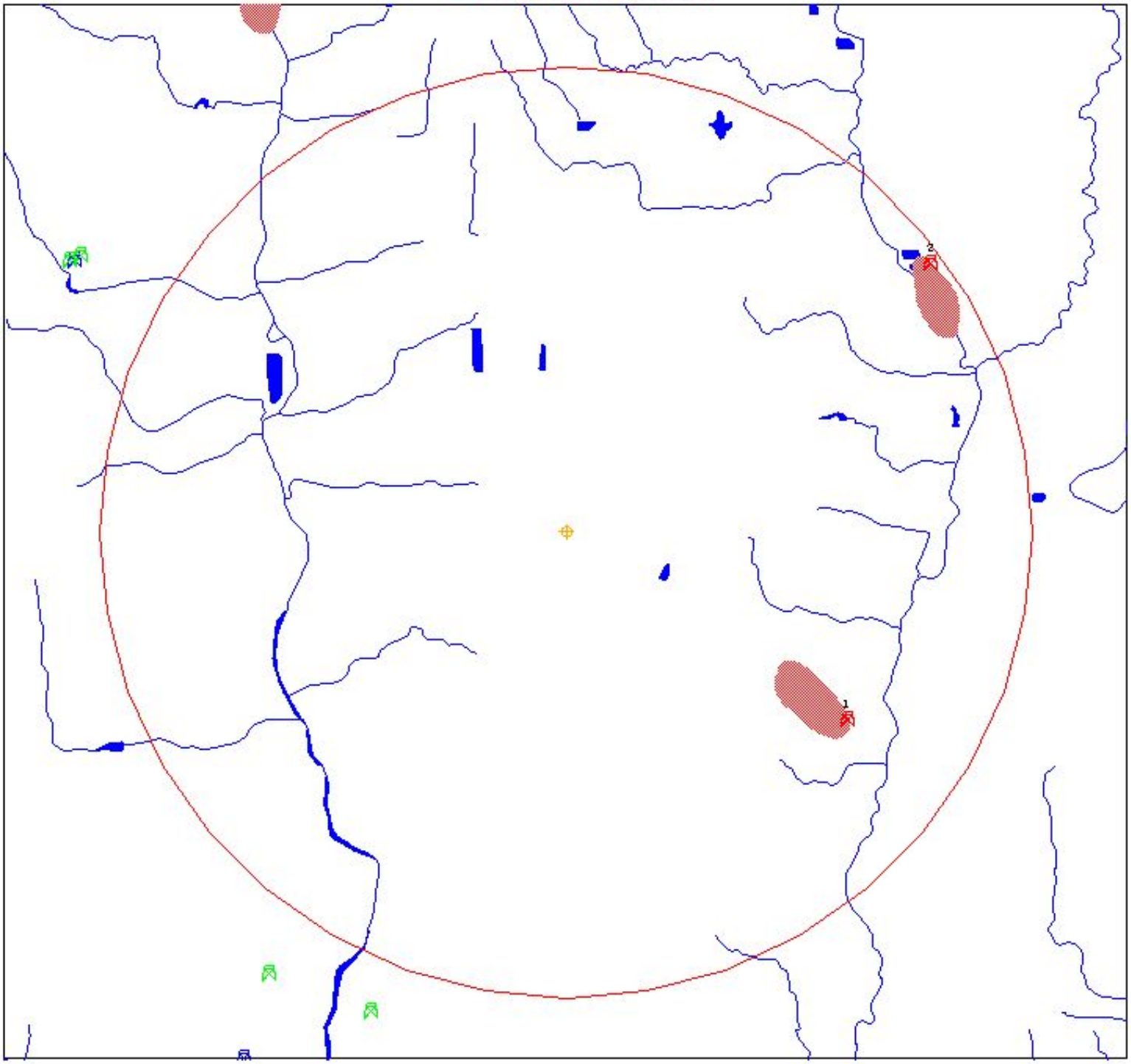
Ohio EPA

Division of Emergency & Remedial Response

GEOGRAPHIC INFORMATION SYSTEM 4-MILE RADIUS MAP

PUBLIC GROUND WATER SYSTEMS

Custom Cleaners



Site

Public Ground Water Systems
- Community
- Non-Community/Transient
- Non-Community/Non-Transient

Rivers & Streams
Wellhead Protection Area
Lakes & Ponds
Limit of Radius From Site
County Boundaries

1 0 1 Miles

N

RCRA Site Detail

Report run on: November 1, 2010 - 8:24 AM

Version 5.0

User Selection Criteria

Handler EPA ID: OHD065988461

History: All records

BR Cycles: Show all

Results

Data meeting the criteria you selected follows.
Total Pages: 4

Report Description

The RCRA Site Detail report provides "all available details" from the handler module and summarized information from the waste activity monitoring module for one RCRA site. The report integrates National Biennial RCRA Hazardous Waste Report data with Site Identification data.

Details reported about the RCRA site include basic handler module information; the standard suite of universes; information about each source record received for the facility, including basic information, location and mailing address, source record and permit contact person (including historical records), list of NAICS codes, complete list of regulated waste activities; and summarized National Biennial RCRA Hazardous Waste Report information by reporting cycle year, including quantity totals (generated, managed, shipped, received), and top ten GM forms by quantity generated. Top ten GM form list shows reported waste description, quantities, onsite and offsite system types, and EPA and State waste codes.

Information listed for the RCRA site can be limited by latest historical information and most recent BR cycle.

Data is sorted by the most recent Received Date. If more than one record has the same Received Date, the data is sorted by Source Type (I-Implementer; N-Notification, B-Biennial Report with Subsequent Notification, R-Biennial Report, A-Part A, T-Temporary, E-Emergency).

Report Information

Name:	h_site_detail.rdf
Developed by:	EPA Headquarters, Office of Resource Conservation and Recovery
Deployed:	November 2002
Last Revised:	August 2010
Contact:	rcrainfo.help@epa.gov
Tables Used:	hbasic, hreport_univ5, gis4, gis_lat_long4, lu_generator_status, hother_id5, hpart_a5, hhandler5, lu_generator_status, lu_country, howner_operator5, hnaics5, lu_naics, hstate_activity5, lu_state_activity, hother_permit5, lu_other_permit, huniversal_waste5, lu_universal_waste, hwaste_code5, bgm_basic, bgm_onsite_treatment, bgm_offsite_shipment, bgm_waste_code, lu_management_method, lu_state, hid_groups, hhsm_basic5, hhsm_activity5, hhsm_waste_code5

NOTE: Some data is suppressed if it is null or blank. See documentation in RCRAInfo Help for details.

List of Hazardous Waste Code Descriptions

Please run the lookup table report for LU_WASTE_CODES for description of federal and state waste codes in this report.

List of Handler Universe Abbreviations

Active	Active Status -- Indicates that the facility could be subjet to the federal RCRA, Subtitle C or a state's authorized hazardous waste program. This definition has no legally enforceable or binding determination about the status of a particular site or the oblications of an owner or operator.
Commercial TSDF	Commercial TSDF -- Indicates that the facility is a commercial operator of transporting, storing and disposing of hazardous waste.
EI Indicator (HE/GW)	Environmental Indicator (Human Exposure/Groundwater Release) -- Indicates that the facility has controls in place for Environmental Indicators. HE - Human Exposures ('+' indicates the exposure exists and is under control; '-' indicates the exposure exists and is not under control; 'N' indicates the exposure does not exist). GW - Groundwater Release ('+' indicates the exposure exists and is under control; '-' indicates the exposure exists and is not under control; 'N' indicates the exposure does not exist).
Federal Generator	Federal Generator Status -- Indicates the regulatory status of the site as determined by the quantity and/or toxicity of hazardous wastes generated, stored or accumulated over a specified period of time.
HSM	HSM -- Indicates that the facility manages hazardous secondary material(s) (e.g. spent material, by-product or sludge) that when discarded, would be identified as hazardous waste.
IC In Place	Institutional Controls in Place -- Indicates that the facility has Institutional Controls in place ('Y' indicates that the facility is in the universe).
Importer	Importer -- Indicates that the facility imports hazardous waste into the United States from a foreign country.
Mixed Waste Generator	Mixed Waste Generator -- Indicates that the facility is a generator or TSDF that handles waste mixed with nuclear source, special nuclear or by-product material.
Operating TSDF	Operating TSDF -- Indicates that the facility is a Treatment, Storage or Disposal facility subject to any type of enforcement. It then specifies the type of facility (L - Land Disposal; I - Incinerator; B - BIF; S - Storage; T - Treatment).
Short Term Generator	Short Term Generator -- Indicates that the facility is a short term or one time event generator and not generating from ongoing processes.
State Generator	State Generator Status -- Indicates the regulatory status of the site in view of implementing the State's "broader in scope" or "more stringent than" rules. Although an implementing State might use terms that differ for their generators these terms would be translated to match the Federal regulatory term.
Transporter	Transporter -- Indicates that the facility is engaged in the off-site transportation of hazardous waste. ('Y' indicates that the facility is in this universe).

WOODWARD PARK SHOPPING CENTER

OHD065988461

EPA Region:05 **Extract:** Y **County:** FRANKLIN **State District:** C

Universes								
	Federal Generator:	LQG	Transporter:	N	Operating TSDF:	----	Active:	Y
	State Generator:	1	Importer:	N	Commercial:	N	EI Indicator (HE / GW):	N / N
	Short Term Generator:	N	Mixed Waste Generator:	N	HSM:	N	IC In Place:	N

Latitude/Longitude Measure - Owner: Seq #:

Coordinates:

Receive Date: 02/26/2009 **Source Type:** Notification **Seq. Number:** 2

Location Address: 1260 MORSE RD
COLUMBUS, OH 43229

Mailing Address: 3972-A BROWN PARK DRIVE
HILLIARD, OH 43026
UNITED STATES

Contact Person For Source Information: JEFFREY A. LINK
(614) 876-6500
SLCO@NETLINK.NET
Fax:
3972-A BROWN PARK DRIVE
HILLIARD, OH 43026
UNITED STATES

Owner (current)
WOODWARD PARK SHOPPING CENTER
From: 06/25/1964 To:
3972-A BROWN PARK DRIVE
HILLIARD, OH 43026
HILLIARD
Type: Private
Phone: (614) 876-6500

Operator (current)
WOODWARD PARK SHOPPING CENTER
From: 06/25/1964 To:
3972-A BROWN PARK DRIVE
HILLIARD, OH 43026
HILLIARD
Type: Private
Phone: (614) 876-6500

Land Type: Private Non Notifier: No TSD Date: Accessibility:

NAICS Codes: 53112 LESSORS OF NONRESIDENTIAL BUILDINGS (EXCEPT MINIWAREHOUSES)

Notes: CONTAMINATED SOIL FROM A FORMER DRY CLEANER STORE.

Regulated Waste Activities

Hazardous Waste Generator Status - Federal: Large Quantity Generator; State: OH-1 Large Quantity Generator

Other Hazardous Waste Generator Activities

Short Term Generator:	No
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility:	No
TSD Activity:	No
Recycler Activity:	No

Exempt Boiler and/or Industrial Furnace

Small Quantity Onsite Burner Exemption:	No
Smelting, Melting, Refining Furnace Exemption:	No
Underground Injection Control:	No
Destination Facility for Universal Waste:	No

Used Oil Activities

Used Oil Transporter Activity
Transporter: No
Transfer Facility: No

Used Oil Processor and/or Re-refiner Activity
Processor: No
Refiner: No

Off-Specification Used Oil Burner: No

Used Oil Fuel Marketer Activity
Marketer who directs shipment off-specification used oil to off-specification used oil burner: No
Marketer who first claims the used oil meets the specifications: No

Subpart K

College/University:	No	Non-profit Research Institute:	No
Teaching Hospital:	No	Withdrawal:	No

Description of Hazardous Wastes (as reported on Site Identification Form)

EPA Waste Codes: F001 F002

RCRA Site Detail

Receive Date: 09/02/1986 **Source Type:** Notification **Seq. Number:** 1

Other/Previous Site Name: CUSTOM CLEANERS INC

Location Address: 1260 MORSE RD
COLUMBUS, OH 43229

Mailing Address: 1260 MORSE RD
COLUMBUS, OH 43229

Contact Person For Source Information: BENNIE GOLDEN
(614) 885-8600
Fax:

1260 MORSE RD
COLUMBUS, OH 43229
UNITED STATES

Owner (current)
GOLDEN BENNIE E
From: To:

ADDRESS NOT REPORTED
CITY NOT REPORTED, AK 99998

Type: Private
Phone: (312) 555-1212

Operator (current)
NAME NOT REPORTED
From: To:

ADDRESS NOT REPORTED
CITY NOT REPORTED, AK 99998

Type: Private
Phone: (312) 555-1212

Land Type: Bad code - Non Notifier: No TSD Date: Accessibility:

Regulated Waste Activities

Hazardous Waste Generator Status - Federal: Small Quantity Generator; State:

Other Hazardous Waste Generator Activities

Short Term Generator:	No
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility:	No
TSD Activity:	No
Recycler Activity:	No

Exempt Boiler and/or Industrial Furnace

Small Quantity Onsite Burner Exemption:	No
Smelting, Melting, Refining Furnace Exemption:	No
Underground Injection Control:	No
Destination Facility for Universal Waste:	No

Used Oil Activities

Used Oil Transporter Activity

Transporter:	No
Transfer Facility:	No

Used Oil Processor and/or Re-refiner Activity

Processor:	No
Refiner:	No

Subpart K

College/University:	No
Teaching Hospital:	No

Off-Specification Used Oil Burner:	No

Used Oil Fuel Marketer Activity

Marketer who directs shipment off-specification used oil to off-specification used oil burner:	No
Marketer who first claims the used oil meets the specifications:	No
Non-profit Research Institute:	No
Withdrawal:	No

Description of Hazardous Wastes (as reported on Site Identification Form)

EPA Waste Codes: F002

* End of Report *